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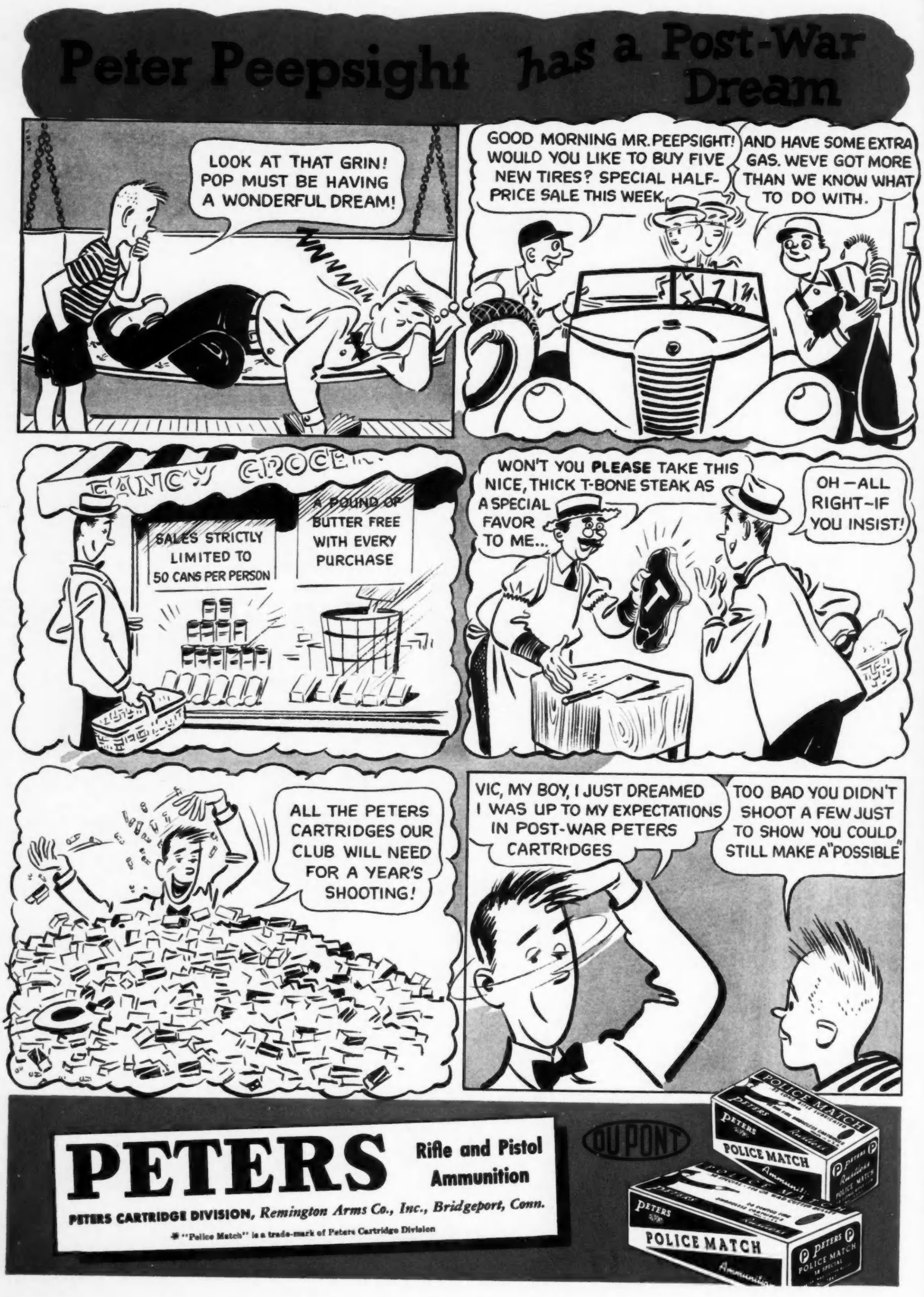
1943

THE AMERICAN RIFLEMAN


Peter Peepsight has a Post-War Dream
LOOK AT THAT GRIN! POP MUST BE HAVING A WONDERFUL DREAM!
GOOD MORNING MR. PEEPSIGHT! WOULD YOU LIKE TO BUY FIVE NEW TIRES? SPECIAL HALF-PRICE SALE THIS WEEK.
AND HAVE SOME EXTRA GAS. WEVE GOT MORE THAN WE KNOW WHAT TO DO WITH.
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A POUND OF BUTTER FREE WITH EVERY PURCHASE
WON'T YOU PLEASE TAKE THIS NICE, THICK T-BONE STEAK AS A SPECIAL FAVOR TO ME...
OH—ALL RIGHT—IF YOU INSIST!
ALL THE PETERS CARTRIDGES OUR CLUB WILL NEED FOR A YEAR'S SHOOTING!
VIC, MY BOY, I JUST DREAMED I WAS UP TO MY EXPECTATIONS IN POST-WAR PETERS CARTRIDGES
TOO BAD YOU DIDN'T SHOOT A FEW JUST TO SHOW YOU COULD STILL MAKE A "POSSIBLE"
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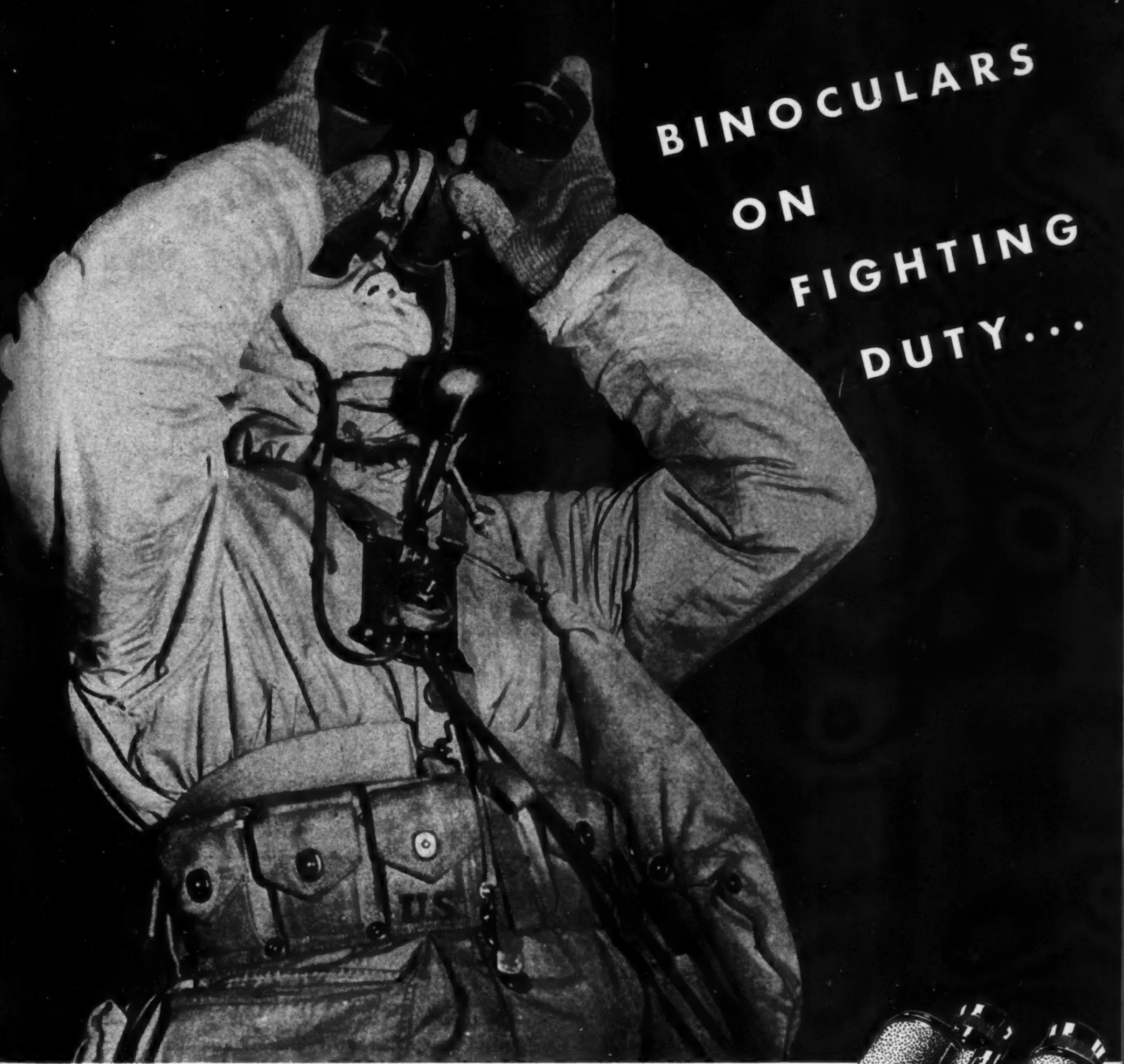

ACME PHOTO

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headed due west..."

ARMY E NAVY

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If you can shoot and have the ability to impart your knowledge to others, you can do a real job toward helping to win the war. Join with the members of your local rifle club who are giving pre-induction rifle training to all of induction age who desire such schooling. This training which familiarizes the recruit with the correct handling of firearms and the fundamentals of marksmanship will do much to speed his promotion and lessen the work of the service instructors.

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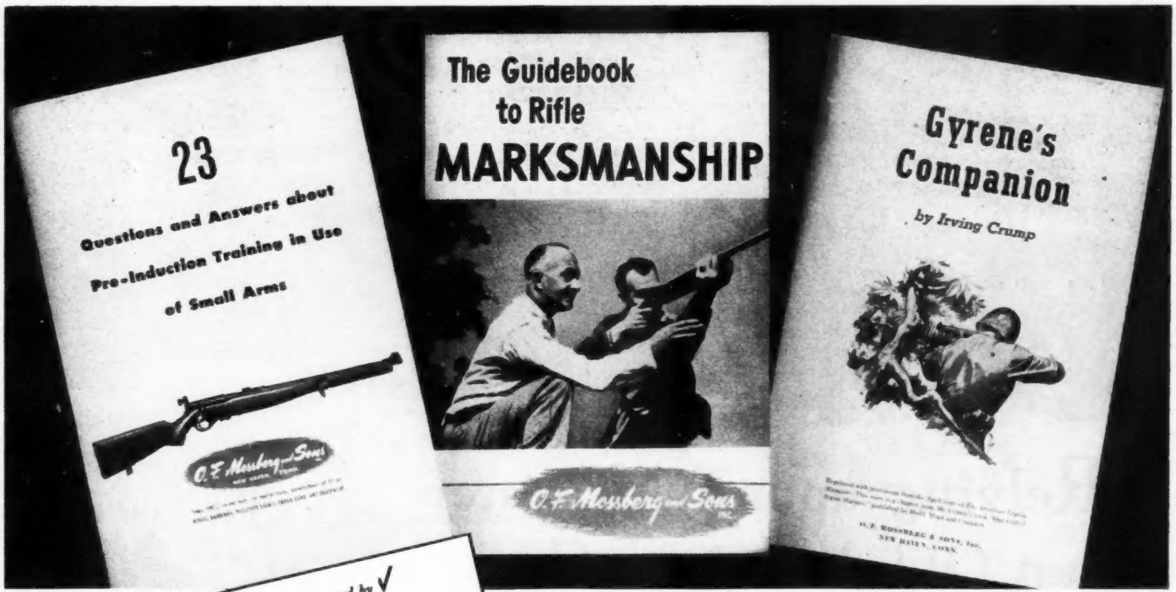
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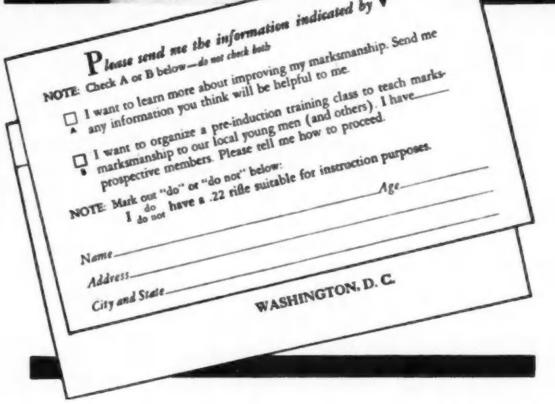
Please send me the information indicated by ✓

NOTE: Check A or B below—do not check both

☐ A I want to learn more about improving my marksmanship. Send me any information you think will be helpful to me.

☐ B I want to organize a pre-induction training class to teach marksmanship to our local young men (and others). I have______ prospective members. Please tell me how to proceed.

NOTE: Mark out "do" or "do not" below:
I do / do not have a .22 rifle suitable for instruction purposes.

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NOTE: *We will supply any needed quantity of the above literature to your Club absolutely free. Just write us at our New Haven address.*

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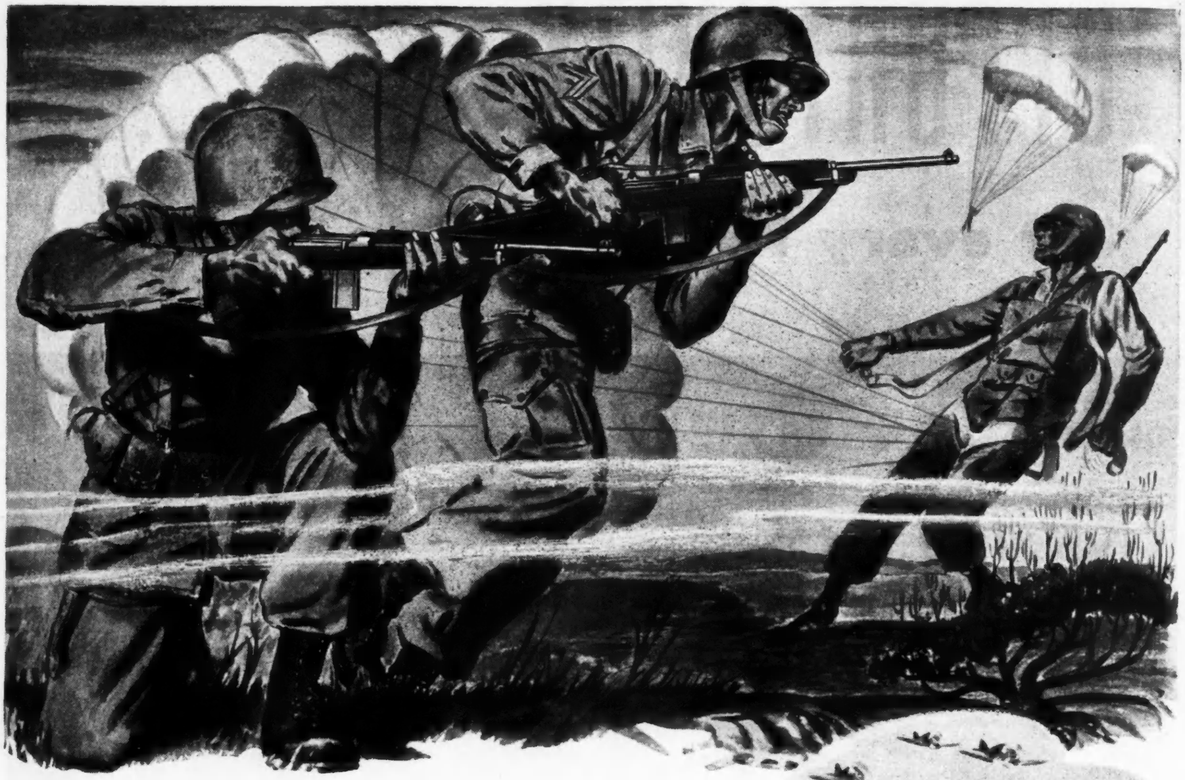


Relying upon Winchester is an Old American Custom

Down from the skies come U. S. Paratroops. A new American fighting force in this war, it is natural they should need a new firearm. And just as natural that it should be *originated, engineered and designed by Winchester!*

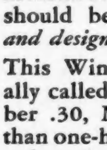
This Winchester Carbine, officially called the U. S. Carbine Caliber .30, M1, weighs little more than one-half as much as the standard service rifle. It's greater in fire power, longer in range, faster in action and more deadly in accuracy than the automatic pistol.

Reliance upon Winchester gunmaking craftsmanship is natural to Americans. For perhaps nothing which has ever been made in America has been so much a part of our nation's history as Winchester guns and ammunition.

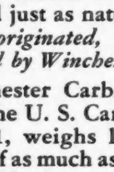
Look at the record: In 1866, the Winchester Model 66, the world's first commercially successful repeating rifle, was born. Men swore and lived by it. In Mexico, it helped Juarez break the despotic yoke of Maximilian. A few years later, the Model 73 became as renowned as the heroes of the Western plains who lived by it. In the Spanish American War and World War I, Winchester fought for America. And today, Winchester is on every battle front.

All America today knows the history of the U. S. M 1 Garand rifle that won its spurs at Bataan and Wake Island. Here at Winchester, we are producing Garand rifles in ever increasing quantities. Better yet, our 76 years of gun-making craftsmanship made it possible for us to cut their unit cost to Uncle Sam . . . *to one-half their original contract price.*

Such outstanding gun-making achievements as these are the reasons for the unquestioned reliance that America reposes in Winchester—in both war and peace.



1864-1867
Mexican War of Independence



1873-1890
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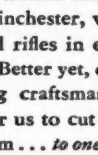
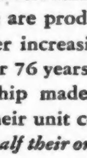


1898
The Spanish American War



1914-1918
The First World War

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The Official Journal of The National Rifle Association of America

AMERICAN RIFLEMAN

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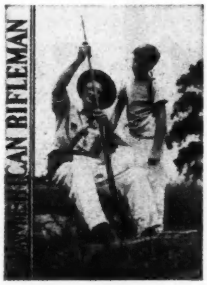

THE COVER: Natural sequel to last month's father-son cover is this grandfather-grandson team of riflemen doing field research on the subject of granddad's weapon. With so many dads in the Service or in civilian war jobs, Young America still craves guns and gun skill; and Young America will have both, thanks to granddad and his muzzle-loader—and thanks to *you* in the Pre-induction Training Schools. Credit once more to Lt. John Scofield, at the camera, and to a pair of photogenic riflemen.

THIS MONTH

"Empty Guns and Loaded Woods," by RIFLEMAN Associate Editor C. M. Palmer, Jr., states the case of the sportsman and the game conservation authorities as against war-time ammunition shortages. Read it and weep! But it suggests a course of action, too.

"New Springfields" gives us the up-to-date answer to the question, "What is the Army doing with 'Old Reliable'?"—plus a close-up of our old friend in his battle dress for this war—plus a glimpse, in the following article, "Grenades," at a new-old job he is doing. He's still a first-class fighting man and still on active duty; a bit less handsome, perhaps, but still deadly, and still loved.

"Shooting-Flying," by Col. H. P. Sheldon, should give you, as it gave us, a pleasant nostalgic glow in memory of other days; days when "shooting flying" meant birds, and Zeros were what you got when you failed to lead 'em. The final paragraph gives, too, the final formula for shotgun skill. And you'll agree with it; which makes it unique in the annals of all such formulae!

"Gewehr 41," by Lt. Charles Schwartz, introduces the "German Garand"—even harder to pronounce and not nearly so efficient as its American prototype. First news of a new trend in German small arms, this article is both authoritative and timely.

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WITH AMMUNITION STOCKS LOW AND HUNTING PROSPECTS EVEN LOWER, GAME CONTROL SEEMS TO DEPEND MAINLY ON THE FARMER—

Empty Guns and Loaded Woods

By C. M. PALMER, JR.

"BROTHER, can you spare a box of shells?"

This wail will probably become only too familiar this fall for from where we sit *at the moment* the prospects for hunting ammunition seem to be very slim. We might even go so far as to say, negligible. There just isn't going to be any for hunting. Sport shooting is apparently out.

The "tumult and the shouting" about the damage that game has been doing and will do if it's not shot, however, has borne fruit. The farmers, who will be the ones to suffer from the depredations of marauding wildlife, are to be supplied, it seems, with sufficient ammunition to protect their stock and crops. This is certainly as it should be. Mebbe, if there's any ammunition left, the sportsman can pick up an occasional box of shells for "a go" with the birds of the field or the animals of the forest.

It's unfortunate that there's to be so little hunting ammunition this year. But then everything about war is unfortunate. It's unfortunate that there's not enough copper and brass and the other strategic materials to go around to cover all of our usual needs and desires. It's unfortunate that the ammunition companies are unable to turn out enough ammo for all purposes. But aside from that it's unfortunate from the standpoint of the wildlife, too. And that's not as paradoxical as it sounds.

The game managers of the country know that good game management demands that the annual surpluses be removed from the range, just as good farm management demands that surplus stock be removed from the farm pastures. It is especially important to reduce excess concentrations of wildlife. To these men it's just as important to provide hunting arms and ammunition as to set aside certain strategic materials for the manufacture of combines, reapers, and other harvesting machinery. Arms and ammunition are their harvesting machinery.

"The game situation over the country is generally good", says Number 1 Game Manager, substantial Dr. Ira N. Gabrielson, Chief of the Fish and Wildlife Service. This is well backed by reports from individuals and official state sources. There are local trouble spots, however. Some of these spots involve the relative scarcity of certain species which have not reacted to the many years of conservation effort. Some species have not yet recuperated from the extreme lows brought upon them by the development of the country and the many other factors which reduced their numbers.

Elsewhere the reverse is true and trouble has developed because of excessive wildlife concentrations. In these *local* sore spots, waterfowl, ringnecks, deer or whatever may be the particular species involved have multiplied beyond the capacity of the natural range to feed and support them. They have had to go elsewhere for their feed and that elsewhere has been the only other source of food supply, the farmers' crops.

One of the best known of these concentrations is that of the ringneck pheasant in the Aberdeen-Redfield section of South Dakota. For years this bird has been building up his numbers in this region which includes the adjacent sections in surrounding states, i.e., southeastern North Dakota, southwest Minnesota, northern Iowa and northeast Nebraska. In South Dakota, in spite of a ninety-day season last fall, during which hunters were allowed a daily bag of ten birds, the "Chinks" apparently suffered little. The hunting made so little impression that the State Game and Fish Department declared a supplementary season in February to cut down the excess. This was not very successful because of exceptionally bad weather during the period.

An idea of just how fast these birds have increased in recent years may be gathered from these recent figures on the situation in North Dakota. According to Roy N. Bach in *North Dakota Outdoors*, there was an estimated breeding stock of 592,000 birds in 1938. The 1942 summer census developed an estimated 7,500,000 of which hunters took 1,300,000 during the open season. Winter loss from freezing and extreme weather conditions took almost as many as the hunters, namely 1,200,000 more. In spite of this large hunter take and the great winter loss, the state was left with the largest stock of breeding birds in its pheasant history; five million breeding pheasants in the spring of this year shows an increase of approximately 500 per cent in five years. In South Dakota it is even worse.

Pheasants or any other species in such concentrations are a menace to field crops and can cause serious damage. But this is not the only local sore spot in the game picture this year.

A few years ago the future of waterfowl was uncertain to say the least. Years of market hunting, the invasion of their traditional breeding grounds by settlers, the constant drainage of pot holes and sloughs and marshes which made up their natural habitat and breeding grounds all had their cumulative effect. Then a succession of drought years nearly administered the "coup de grace". The ducks, the geese, the swans and all their cousins of the water bird families went down with the breeding grounds. Hunting seasons were cut and bag limits reduced until it seemed hardly worth while going out after any duck shooting.

But the sportsmen and conservationists went into action, passed the Duck Stamp Act and the sportsmen began to shell out their annual dollars. Then the Pittman-Robertson Act came along with its ten per cent tax on arms and ammunition and matched by funds from the various states, things began to happen. The result has been phenomenal. Breeding grounds have been rebuilt; pot holes, sloughs, and marshes have reappeared all over the ancient waterfowl spring and summer range. The waterfowl re-

sponded. Aided and abetted by improved weather conditions, these birds have increased to the point where now in some places they are beginning to constitute a serious *local* menace to crops.

Out in the Skagit Sound area of the State of Washington, there is a flock of widgeon that has made tremendous progress during the past decade. At the beginning of that period, the flock consisted of about ten thousand birds, which plied its short migrations upon and down the coast between Puget Sound and lower Alaska. They minded their own business and got into no one's hair. They were not affected by hunting because in their migrations they "ducked" the various open seasons. In the years following, they have multiplied to the neat little figure of approximately 150,000. No longer do they mind their own business. Of late they have gotten into the business of the beet and cabbage seed growers of that region in a big way. There is just not enough natural feed there to take care of such a large flock. Consequently, they repair to the beet and cabbage fields to the anguish of the growers.

In Colorado, ducks are raiding the crops, too. Here they seem to specialize on standing corn, although sorghum and field peas, raised for stock feed, are not passed up. We are told that the climate of northeastern Colorado vies with that of Florida and California from the standpoint of mallards and pintails and they stay there all winter. For various reasons, not the least of which is the shortage of farm labor, corn must be left standing until well into February. The ducks find this much to their liking. Here, too, special permits were issued to shoot such ducks when actually in the corn and other fields, but *not over water*, during the period of December 24 to January 21 of last year. But only eight thousand birds were so taken.

California pintails have been working on the rice fields in the Sacramento Sound area for over fifty years and they are continuing to do so. This brings up the point that these depredations are not all new ones. Many have been going on for a long, long time but many of these birds and animals have increased during more recent years and their depredations have consequently increased. Arkansas rice growers are having trouble with mallards and pintails. In some sections of the state, the damage assumes pretentious proportions.

Big game as well as waterfowl and upland birds are trouble-makers, too. This is no new story. They've always been a headache to game managers wherever their local numbers have exceeded the available natural food supply. Ask the Pennsylvania farmer what he thinks of the deer situation and you'll probably get an answer which leaves no room for doubt as to his sentiments. At the turn of the century Penn's Woods were just about destitute of deer. The introduction of the nucleus of a breeding stock and wise conservation of that nucleus and its progeny has developed next to the largest herd in any state of the Union. Only Minnesota exceeds Pennsylvania in the number of deer in its woods. Sound management, however, today demands that the annual surplus deer of these states be taken out in order to prevent untold hardship to the farmers and damage to the deer and its range. Pennsylvania is not alone with its deer problems. Most of the New England states, New York, Michigan, Wisconsin and Minnesota, Colorado and several of the far western states have reported damage of varying proportions from time to time.

The elk of the Yellowstone is a perennial sore spot.

Elk are troublesome in other states, too. Colorado, Utah, Oregon, Idaho and Montana and, believe it or not, Virginia have their elk worries.

Rabbits are too numerous throughout the east. Victory gardeners everywhere are tearing their hair in despair over nightly raids on their "war effort". Even squirrels and raccoons go in for this victory garden business—on the side of the Axis.

But this relative abundance is a condition which is not accidental nor unpremeditated. It has been done with careful planning and years of carefully directed effort supported by millions of sportsmen's dollars. It is the direct result of our conservation program. These increased wildlife populations are the answer to the sportsmen's prayers and constitute a valuable natural resource.

To harvest the annual surpluses is imperative to good management. It is also sound business but that's another story.

It is especially important to control wildlife numbers in concentration areas. Bear in mind, however, that these instances of crop and range damage are confined to purely *local* areas. They are not general and it must not be inferred that all game in the country needs reducing. Nearly all species have increased encouragingly during the past decade but not to dangerous proportions. A respite from shooting for as much as a couple of years would do some species in many parts of the country a great deal of good. And the average game population would suffer little from such neglect.

For the moment we will ignore completely the value of sport and recreation for a people working at high speed under the tension of war. Nevertheless, because of war this value is greater than ever. Never before have we given such consideration to the many "little things" that make up morale. Hunting is one of these "little things" that build up the morale of a large part of our people. Its value is inestimable. But for the moment we will simply skip this.

When game species become too numerous locally, they first deplete the natural food—sometimes permanently even to the destruction of the game range. This entails the loss of valuable range which in this country has frequently taken many years to rebuild at great cost. Then they turn to domestic crops where another loss is suffered. When both these crops are gone, they must go elsewhere or starve to death in great numbers. Here we lose again, this time a valuable source of good, red meat which in these days is not only inexcusable but little short of criminal.

Last year in continental U. S., there was harvested sufficient *game* meat to have fed the entire nation, 132,000,000 people, a full week on the current ration allowance of about two pounds per person a week. That's a substantial quantity of the choicest kind of meat in any day, especially now when we suffer so constantly from a protein-shy daily ration. And you can't get game with red coupons!

That vast quantity of nutritious and delectable meat is added to our war bag as a by-product of war-time recreation. But that's only one of many by-products of wildlife that are being utilized in the war effort to good advantage. Wildlife is contributing to the equipment of our fighting forces hides, furs and feathers, fats

(*Continued on page* 17)

An Editorial

The Men of Perry

IT'S Camp Perry time, National Match week! The "schools" were finished a week ago. The President's Hundred has passed in review. The Herrick is history. The whole camp knows which individuals and which teams are "hot." The tyros are beginning to lay their money on the line, picking the winners of "the Nationals." But the old-timers, the Men of Perry, are picking no winners. Too often they have seen the "hot" teams go up in smoke instead of in a blaze of glory. The Men of Perry know how many *unexpected* things happen when men are strained to the breaking point. They have seen too many men who "couldn't miss" throw away precious hits on wrong targets. They have seen too many "unbeatable" team officers over-dope when the going got tough. Time and again they have seen the fellow who was "always up among 'em" but never a winner, come from behind to cool off the hot aggregation.

From such occasions the Men of Perry develop. No man, it has been said, may truly call himself a soldier until he has tasted the bitter dregs of defeat. So it is at Perry. Not Victory, the charming, elusive wench, but Defeat, the dour, nagging taskmaster, is the teacher, guide, and disciplinarian who finally turns a mere shooter into one of the Men of Perry.

Perry has been the uncompromising testing ground for many men. Even for men who pulled no triggers, set no sights, doped no wind. Men whose job it was to organize and to administer. In many peace-time years the Army afforded its officers no test equal to Perry to determine a man's ability to handle the mixed components which must be handled in time of war. The Perry school often provided a testing ground which the Army nowhere else possessed to try mass training methods for half-disciplined Guardsmen and civilians. During the years of our "one battalion posts" the concentration of troops and trainees at Perry was larger than many a field officer had been able actually to command elsewhere in the field.

Perry tested small arms and ammunition. But Perry also tested men. Tested them, not in the light of their ability to write sonorous reports, or to move pins on maps, or their ability to say "yes sir" at the right time. Perry tested men in the only thing that matters in war—the ability *to lead men* when the going is good and when the going is tough. Only those who met that test became the Men of Perry.

This year there is no Perry, but three generations of the Men of Perry are fighting their country's fight. Their influence on the final victory will be no less inescapable by reason of its being incalculable. Some already wear the Congressional Medal, some will receive no more acclaim than a cordial "well done" from plant foreman or company commander. Some have led powerful units of the Nation's forces into battle. Some have played humble but equally essential roles in the same fight. Some have established and taught in the great Service Schools. Some have done what they could by teaching the lore of guns and gunnery, of sportsmanship, and of leadership to the lads within their own community. They are soldiers, sailors, marines, coastguardsmen, and civilians. They are buck privates and generals. They are seamen and admirals. Whatever they are, wherever they are, they are doing a job. Some have already made the supreme sacrifice. Some are in enemy prisons.

Generally speaking, the peace-time Army failed to recognize the real man-testing qualities of Perry. One great tragedy of this war *might* have been avoided had the Army taken cognizance of a warning signal raised at Perry.

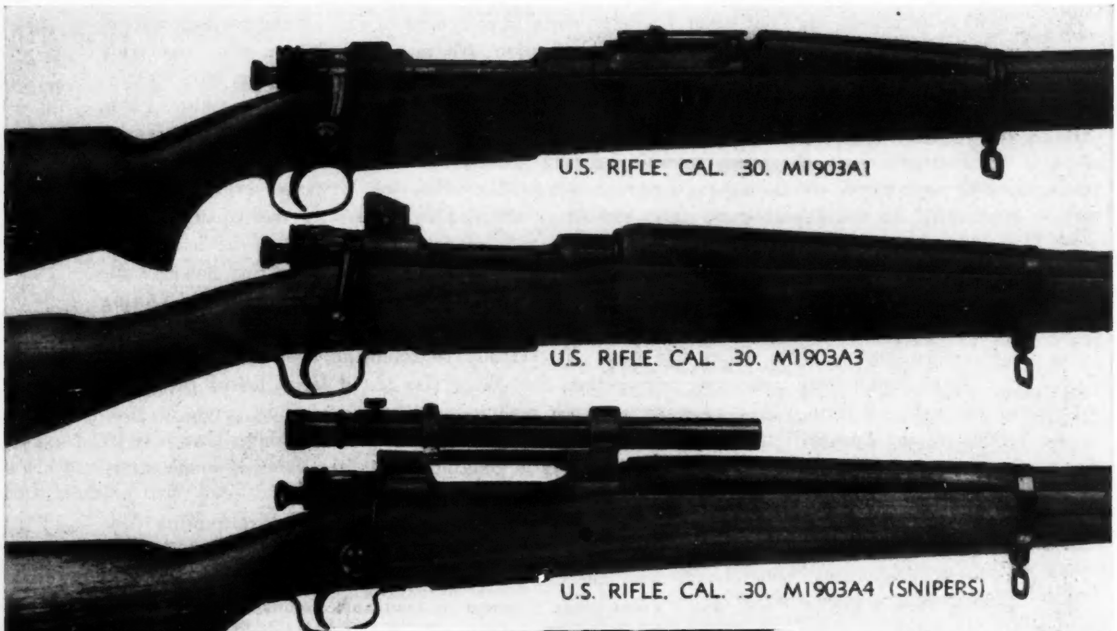
At Perry, out of the driving rain, the shivering nights, the boiling sun, the disappointing defeats, and the unexpected victories was distilled a *spirit*. It was a spirit that made *leaders*, each in his own walk of life. It was a spirit which created an *esprit de corps* that recognized no barriers of caste or of branch of service.

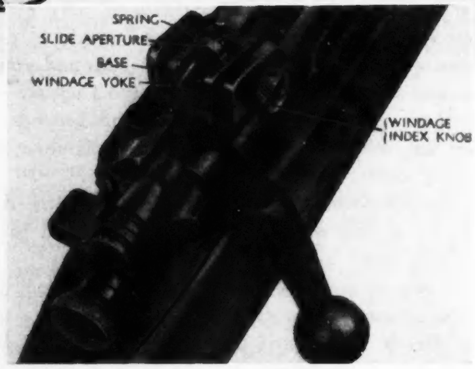
This spirit made the Men of Perry. It will bring them together again when the war is ended. Until then, ye Men of Perry, good hunting and good luck!—C. B. L.

NEW SPRINGFIELDS

THE OLD RELIABLE Springfield rifle is very much alive in the Army of the U. S. In spite of the new semi-automatics, the Garand and the M-1 carbine, a large number of troops are still using the old gun and the enemy in the far-flung corners of the earth is still feeling its sting.

In addition to its time-honored employment as a basic infantry weapon, it is now being adapted to several special missions including its use as a grenade thrower (see opposite page), and as a sniper's rifle. For these and other reasons, the Springfield has been subjected to slight modifications in design more consistent with modern, war-time production methods. These changes for the most part are of minor nature and have little effect on the performance of the rifle.


U.S. RIFLE. CAL. .30. M1903A1
U.S. RIFLE. CAL. .30. M1903A3
U.S. RIFLE. CAL. .30. M1903A4 (SNIPERS)



The need for speed in production and for the utmost conservation of strategic war materials has prompted these changes. The savings in materials, in machine tool work, and in man-hours of labor have almost doubled production without any increase in facilities. Most of the changes have been conversions in certain parts from machined forgings to stampings. This has permitted the prime contractor to convert many of its profilers, milling machines, etc., to those parts which still require such operations. And he has been able to subcontract a considerable amount of less exacting work to other firms.

The basic Springfield rifle standardized as the U. S. rifle, caliber .30 M1903, had a straight grip stock. When this stock was changed to the pistol grip type, it became known as the M1903A1. Now, the redesigned job goes back to the straight grip stock and is standardized as the M1903A3.

One of the most important changes from the standpoint of the shooter is the new rear sight. This sight is mounted on the bridge at the rear of the receiver. It consists of a fixed base and yoke one within the other. The fixed base is mounted rigidly to the receiver, and the yoke, holding the sliding aperture, is operated within the base by the windage screw. This windage screw performs two functions; it holds the windage yoke in place and it moves the yoke to right or left to change the horizontal sight setting.

The aperture itself is mounted on inclined ways in the windage yoke so that by pushing it back or forth the elevation may be raised or lowered. The edges of this windage yoke are marked with a range scale in 50-yard graduations and the numerals 2 to 8 indicating hundreds of yards. While the old leaf sight of the original Springfield was graduated to 2,850 yards, the new one goes no further than 800 yards, which covers with plenty

(*Continued on page* 24)

RIFLE GRENADES

By COLONEL S. R. STRIBLING*

THE GRENADIER MAKES A COMEBACK

A FIVE-CENTURY SAGA, FROM BAKED EARTH BOMBS TO TANK-SMASHING BAZOOKA

MODERN WARFARE, with its fast-moving mechanized units, its heavily armored tanks, its great firepower on wheels, pretty much eclipsed the foot-slogging soldier in the early days of this war. But now, the foot soldier again comes into his own with equipment placed in his hand to make him a deadly enemy of the tank monsters. And with his return to a more equal combat comes the return of "old faithful", the trusty bolt action, Springfield rifle, in a new role and with a new lease on life. For modern warfare has necessitated the design of antitank grenades, one of the most effective of which is fired by means of a launcher attached to the doughboy's rifle.

And while it has been customary to think of the present warfare as one of fast movement of open formations, considerable close combat also is still the order of the day. Especially is this true of jungle fighting, but close combat is also used by infantry in consolidating ground gained by armored forces. In close-in fighting, the grenade (rifle or hand) comes into its own. Grenades are most effective for augmenting primary weapons such as the rifle in trench or foxhole warfare and on missions where the enemy may be encountered at close quarters.

Shortly after explosives were invented they were put to work in grenades, and history records the use of grenades in warfare as early as the Fifteenth Century. The first grenades were baked earth shells filled with gunpowder. These were later supplanted by wood and later by brass shells. The name derives from the fact that they were shaped like a pomegranate. In the rise and fall of the grenade as a weapon the apex was reached about the middle of the Eighteenth Century.

A grenade in general use in the Seventeenth Century was a cast-iron shell filled with gunpowder and weighing about two and one-half pounds. The attached fuse was ignited with a slow match and it was necessary to whirl the grenade around to get the fuse well alight before hurling it at the enemy. Special troops armed with these missiles were known as Grenadiers (1776), and cavalry regiments similarly provided were called Horse Grenadiers. These men were picked for their skill and courage, for the crude grenades of those days frequently burst prematurely with adverse effect on the morale of the troops that were assigned to use them.

With the development of rifles and artillery of increasing power and range, the popularity of the grenade subsided and by the middle of the Eighteenth Century it was all but obsolete. The grenade was revived in the Russo-Japanese War but those used by both armies were very crude. In World War I, however, the grenade again became an important weapon, due to the immobilization of the armies in the trenches and to the closeness of much of the fighting.

Rifle grenades date back to 1743 and closely resemble those of today. The most popular seems to have been the rodded type which consisted of a rod screwed to the base of the grenade. The rod was slipped into the muzzle of the gun and both rod and grenade were projected when the gun was fired. By using various lengths of rod the range could be varied and maximum range was attained with the longest rod the barrel would take. Later on, launchers (or "dischargers" as the British called them) were devised to overcome some of the difficulties encountered with the rodded type.

A later type of rifle grenade, with a rod extending about ten inches into the muzzle of the rifle, employed a weighted striker to hit the primer when the gun was fired. This striker moved in a nose that was attached to the front end of the grenade and was held immobile by a pin. The pin was withdrawn in battle by means of a ring but the striker was still held by a shearing wire. When the gun was fired, the shock of the propellant instarting the grenade on its way threw the striker against the wire which it sheared and then hit the primer. Heat and flame from the primer started the fuse burning, its length being gauged to burn for eight seconds, at which time the grenade was supposed to arrive at its target. The fuse set off the detonator which in turn detonated the bursting charge, or, in case of a smoke bomb, started the smoke mixture burning.

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Shooting these grenades strained the gun almost three times as much as shooting bullets. It was like dropping the rifle some twelve or fourteen feet on its butt. There was always the danger that it might strain the action or break the butt. Sometimes a ring bulge appeared in the bore at the end of the rod. Most military rifles, however, were made twice as strong as need be, some were ten times as strong, so they stood this treatment very well. Nevertheless, this strain limited the weight of the rifle grenade and the trench mortar took over when a more destructive missile was needed.

The hand grenade most popular in many countries in recent years is known as the Mills Grenade which is about the size of a large lemon and functions almost like the rifle grenade described. The difference is that the striker, instead of being weighted, is spring actuated. The spring is held in the "safe" position by a combination of lever, extending down along the outside of the body of the grenade and held by a cotter pin. In battle action the grenade is held in the hand so as to keep the lever compressed and the striker safe after the cotter pin has been withdrawn. When the grenade is thrown, the lever flies up and frees a spring which throws the striker, or firing pin, against the primer. The explosion of the primer ignites the fuse which burns for five seconds while conducting the flame to the igniting charge of black powder which detonates the bursting charge.

The body of a fragmentation grenade is grooved segmentally to control the size of the fragments when it explodes. It is this fragmentation that works injury to nearby troops. These pieces fly in all directions at velocities of about three thousand feet per second. Just as the trap shooter has to deal with patterns when shooting "birds" so does the designer of grenades. If the fragments are large, the pattern will be open and the chances of a hit decreased thereby, but the killing power and danger zone will be at their maximum. On the other hand, if the grenade breaks into many small pieces, a close pattern is attained with increased chances of a hit, but the lethal effect is less, due to the low weight of the fragments and their rapid loss of velocity. The size selected as the best all-around compromise is about three-eighths of an inch. In controlling the size of the fragments, the principal factors are: thickness and segmentation of wall, type of metal employed, and kind of explosive used. The Mills Grenade, which weighs about twenty-two ounces, breaks into about forty pieces and its zone of effective dispersion is about thirty yards although some pieces may fly as far as two hundred yards with lethal effect. This range makes it necessary to throw the hand grenade from cover.

The fuse and safety mechanisms are most important adjuncts to a grenade. While percussion fuses can be used, time fuses are most commonly employed. The fuse of a hand grenade is ignited by a primer which is hit by a spring-actuated striker by the release of a lever as the grenade leaves the hand. A weighted striker in the rifle grenade snaps back against the primer when the rifle is fired. In either case a section of fuse is ignited and the length of the fuse is adjusted to the range and time of flight. For hand grenades it burns for five seconds while in rifle grenades the burning period, prior to detonation, is eight seconds.

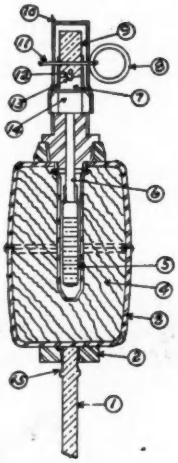
The British adopted and used, in World War I, the Mills Grenade which was developed in America. When we entered the war we redesigned this important missile and let orders for a total of 68,000,000. Shortly after they began arriving on the front, A. E. F. headquarters cabled orders to discontinue their manufacture as they were unsatisfactory and were killing the soldiers using them. Casualties in training were inordinately high. It was erroneously reported that this was due to the malfunctioning of the newly designed safety feature.

The real trouble lay in the grade of material from which the grenades were made. In England and France the body was cased in gray iron which pulverized when exploded, thereby confining the danger zone to comparatively small limits. Soldiers out in the open were accustomed to throw them with impunity, whether on the offensive or defensive. On the other hand, those made in America and shipped overseas were of malleable iron, a much tougher material which fragmented with much larger pieces. The velocities of these pieces were so much greater that the zone of destruction was increased to the point (200 yards) where the throwers themselves were being killed.

What had happened was that the Ordnance Department of the U. S. Army had redesigned the grenade for a greater zone of destruction, intending it for use in defensive warfare only. In other words, it was to be thrown from trenches or from other sheltered positions, where danger to the using troops would be minimized. But the A. E. F. had by that time entered the offensive-operations phase and was throwing the grenades in the open where cover was unavailable. A change-over to gray iron was made. From this lesson comes our present day program of two kinds of detonating grenade, one for defensive and the other for offensive warfare.

The rifle grenade of today, as of old, is filled with high explosive and detonates on impact. However, the rod has been discarded and a special launcher is employed. The grenade, which weighs about one and one-half pounds, is fired from the rifle by a special blank cartridge. The steel body of this grenade has a tail assembly which prevents it from tumbling in the air, thereby increasing its range and improving its accuracy. The launcher, on which the grenade is placed for projection, comes separately and is affixed to the rifle by a clamp. It is a steel tube of sufficient bore to permit the passage of a bullet and has rings milled into the outside surface. The tubular portion of the tail assembly of the rifle grenade slides over the launcher, and when in position the launcher forms an extension to the rifle barrel. (The rifle can be fired as a rifle with the launcher attached but not with the grenade in place.)

These grenades are divided into two classes according to the type of fuse employed. The fuse of the AT, M9 will normally detonate only upon impact with a hard, resistant body such as steel. The fuse of the M9A1 grenade, however, is more sensitive and will function when striking soft earth. Upon impact the firing pin is driven into the detonator which is located inside the body of the grenade. A safety pin keeps the grenade safe before using and must be pulled just prior to firing. These grenades are packed in kits containing ten grenades and one launcher. A cartridge is packed with each grenade in a cellophane wrapper in the tube of the grenade.



ROD RIFLE GRENADE—1. Rifle Rod; 2. Base Disc; 3. Body; 4. Filler; 5. Detonator; 6. Time Fuse; 7. Striker Chamber; 8. Ring; 9. Striker; 10. Cover; 11. Safety Pin; 12. Shear Wire Hole; 13. Striker Point; 14. Primer; 15. Small Rod Projections.

The antitank rifle grenade may be fired from any position used for firing a rifle; that is, standing, kneeling, or prone. If time permits, the hasty sling should be used. Owing to the height of the sight the cheek cannot be pressed firmly against the stock and consequently the head must be held well away from the rifle. In firing from the prone position it is desirable, although not necessary, to use a butt rest. Many things may be employed for a butt rest, such as a sandbag, tree stump, back wall of trench, vehicle rut, or other indentation. Care should be always used to employ the trigger squeeze as the added weight of the launcher and grenade exaggerates the tendency to flinch. The weapon is normally employed quickly and at short ranges, so the soldier must be well trained in hasty range estimation and its application to marksmanship.

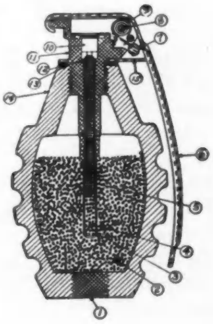
Another complication in rifle grenade use is shooting at moving targets. This introduces the technique of leading the target with which all skeet, trap, and bird shooters are familiar. Here the speed of the target and its direction of movement with respect to the line of sight are most important factors. For instance, a vehicle moving at fifteen miles per hour will cover about seven yards in one second, approximately the length of a medium tank. The travel of the grenade is such that a lead of several yards must be observed. Of course, the gun must be kept swinging, as in shooting a bird, and squeezed off as the line of sight passes the target and the instant it attains the correct lead. Care must be taken not to stop the gun in its swing when it is fired.

So successful have these grenades proved in the various theaters of war in different parts of the world that the Army decided to extend their use to troops equipped with other weapons. Therefore, Ordnance developed launchers to fit the Garand and carbine so that rifle grenades can also be fired from these weapons.

Now we come to the most sensational weapon developed for infantry since the advent of the rifle. This is a grenade, the effect of which is so devastating that details of its construction are still a military secret. It is best known by the special launcher from which it is projected and which has been acclaimed to the world as the "Bazooka." The "Bazooka" is a steel tube open at both ends. One soldier holds it on his shoulder, aims and fires it at a target, while another puts the grenade in at the rear and gives him the signal. There is hardly any kick. The grenade is loaded with an explosive more powerful than TNT and has a range of several hundred yards.

Major General Levin H. Campbell, Jr., Chief of Ordnance, says that it is a weapon, which, "carried in the hands of a soldier, can destroy any enemy tank on the battlefield today. This weapon has been used successfully by our forces in Africa to destroy fortifications and tanks. It is so simple and yet so powerful that any foot soldier using it can stand his ground with the certain knowledge that he is the master of any tank which may attack him.

"During recent operations in Africa, a small but strong fort gave considerable resistance to the Americans. One lone American soldier detached himself from the landing party, waded ashore and with one shot from his gun effected surrender of the fort. That will be known as the saga of one American soldier and his 'Bazooka.'



FRAGMENTATION GRENADE—1. Filling Hole Screw; 2. Bursting Charge; 3. Case; 4. Igniting Charge; 5. Time Fuse; 6. Lever; 7. Striker Point; 8. Hinge Pin; 9. Spring; 10. Primer; 11. Fuse Body; 12. Priming Cap; 13. Washer; 14. Body; 15. Fuse Sealer.

"On another occasion, an American soldier armed with this weapon was suddenly confronted by six tanks; unobserved, he fired hastily from cover. The projectile missed the tanks, but felled a large tree. The tank commander, an experienced officer, surrendered. The Americans were astonished. The tank commander explained: 'When you start firing 155 mm. guns at tanks, it is time to surrender' ".

SHOOTING-FLYING

By COLONEL H. P. SHELDON

JOHN MARKLAND HAD A NAME FOR IT, BUT PERSONAL WORTH IS STILL THE BIG COUNT IN A SPORT THAT HASN'T CHANGED IN OVER A HUNDRED YEARS

Brought up on a rifle, I quite naturally, in my early years, held the shotgun and those who used it in complete contempt. It was a pot hunter's weapon, a can't-miss-'em gun made to nourish the egos of those who lacked the skill and patience to place a bullet properly. Then one October day down in Rocky Pasture I came upon the local market hunter, one "Sody" Ward, who was armed with a double-barreled, hammer bird gun. Out of curiosity I went along with him to see how he managed his nefarious business. Presently a ruffed grouse, the "pa'tridge" of New England, without waiting to be pointed, got up in front of Sody's dog and in a thundering roar went off through the birches. Sody fired and missed. I discovered that Sody was a profane man, which didn't surprise me, but I was astonished to learn also that he seemed to think that he should have hit that whizzing ball of feathers. A little farther along where a worn cowpath wandered off among the rocks and birches, the dog cat-footed to a halt at the edge of a briar patch and stood there tense and strained with bulging eyes and shivering flanks.

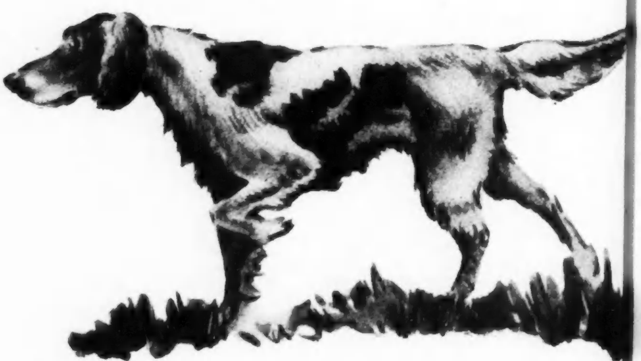
Sody stepped forward and two great grouse went out on roaring wings. This time Sody was ready. He scarcely seemed to move but the gun cracked twice, the shots coming as close together as two taps of a drummer's sticks. The pa'tridges, marvelously stricken in full flight, struck the path ahead of us not five yards apart, fluttered for a moment and lay still.

It seemed miraculous then, the swiftness and precision of it, and it still does after nearly two score years during which the love of the scattergun has led the goggle-eyed, big-eared, young observer into nearly every state in the Union and to foreign fields as well, forever trying to emulate Sody's perfect performance. That revelation of the possibilities of the shotgun didn't lessen my infatuation for the rifle; it merely opened a new and fascinating chapter in the great book of shooting.

A long time ago, in 1727, I believe, an Englishman named George Markland wrote the first treatise in English on shotgun shooting. Its title was "Pteryplegia or The Art of Shooting Flying." It was written in verse, a form that was very popular at the time, but Markland knew and discussed in his quaint way many of the problems that intrigue and beset the modern gunner. For example, his estimates of "lead" are almost identical with modern computations when allowance is made for difference in ignition time between the flintlock and the breechloader. Since Markland many thousands of men have written millions of words about the shotgun and wing shooting, and the end is not yet. As long as gunners are gunners, and shotguns are shotguns, and game birds are game birds, the entrancing discussion will go on with the last expert still seeking more information.

The rifle is a scientific instrument. The laws governing its performance are fixed and established. They are complicated but, nevertheless, understandable. For example, Mr. Harry Pope can build a .30 caliber barrel, and after a few test shots at 100 feet, send it to you with exact instruction to enable you to put the first shot into the 1,000 yard bull's-eye.

No one can do that with the shotgun. The makers can bore a barrel that will average fifty per cent or seventy per cent patterns in a thirty-inch circle at forty yards, but none of them can tell you how to put the fifty per cent pattern squarely on a rising, right-quartering grouse at thirty yards, or the seventy per cent pattern on a flaring pintail duck at a longer range. Men can, and have, computed the speed of flight of the bird, the time it takes for the shot charge to travel to the target and the ignition time. From this equation it is possible to figure the scientifically correct "lead" for any bird that flies, but the value of these tables to the shooter is, as the colored parson described his interest in his high yaller choir singer, "purely academic." The shotgun in use is not a scientific instrument; it is a thing that reflects the shooter's personality in terms of judgment, coordination, and temperament, like a violin. It is as good as you are, or it is as bad as you are.



The reason, as I see it, why tables of lead are of little practical use to the wingshot is this: the correct scientific allowance is not the correct personal allowance. There is not one chance in a million that the two will coincide. Let us suppose that ignition time, plus time of flight of the shot charge from gun to bird, plus speed of flight of the bird, give the correct mechanical lead on a crossing thirty-yard bird as fourteen feet. If you laid your gun in a fixed rest and were able to pull the trigger at the precise instant when the bird was fourteen feet from the line of aim, you would score. But in practice you can't just stick your gun out and await the arrival of the bird at a predetermined point in the atmosphere. Something else is necessary and that something is the value of your own coordination time. The true lead is ignition time, plus time of flight of the shot charge, plus target speed, *plus* the time that elapses while the eye signals "ready" to the brain, the brain orders "fire," and the nerves and muscles execute the order. And if that isn't a fourth dimensional formula, I never saw one.

The mechanical lead doesn't change—if it is fourteen feet it remains so, but a man whose coordination is on the slow side may have to take an actual lead of thirty feet in order to get the shot charge off on the fourteen foot mark. A man of faster reactions may need only a few feet more than the mechanical lead.

The best method is to do as the great shots do; forget the mechanical leads—you can't remember them anyway—and by practice find your personal lead for most of the known angles and speeds that you encounter. In time the subconscious mind will take over and you'll find yourself pulling the trigger without being aware of any mental effort. It is easier than it sounds. Since infancy we've been depending upon the subconscious mind to bring about exact coordination between eye, brain, and muscle. The subconscious is pretty good at it too—we can light a cigarette without sticking the match in an eye, we can slap a mosquito, meet and pass without bumping—if sober—tie our own necktie and do a million daily problems requiring delicate coordination and precise timing and all without conscious thought.

We become awkward, uncertain, and confused only when we try deliberately to control these subconscious impulses. Watch a man having a bad day at the traps. Something is wrong, and the harder he tries to correct it the worse it becomes. He leads too much; he leads too little; he shoots too high and he shoots too low. His is a divided command, and there'll be no relief for him until he gives up and allows the old S. M. to take over.

There is no common unit of measurement of lead. Every man has his own.

And above all things, the art of shooting flying calls for imagination, not formulae.

To draw another comparison, the best rifleman on earth can do nothing with an inaccurate rifle. On the other hand, a good hand with a shotgun can, and often does, put on a brilliant exhibition with a shotgun which from the standpoint of regular patterns is worthless.

Joseph Manton, the old English gunmaker, was the first to recognize this fundamental psychological quality in shotgun shooting. In order to hit rapidly moving targets he thought that the gunner should have a gun that *looked* as if it was capable of doing the trick. Joe made such guns and every competent gunmaker to this day has followed Joe's modeling. Pick up any really good modern double gun, English, American, French, or Belgian, hold it at arm's length, and note how every line from buttplate to muzzle slopes and tapers toward the target. Even the channels of the screwheads on best grade guns point toward the spot where the shot load is to be delivered. The design, so suggestive of the weapon's purpose, instills confidence in the handler and he is halfway a wingshot before he pulls a trigger.

Good lines are not enough, however, and "Old Joe," as Colonel Hawker called him, proceeded to work out his ideas of proportion and balance. These, too, never have been improved upon. In effect Joe Manton fashioned a rapier from a cudgel. In my eyes, at least, the modern double gun ranks with the longbow in point of supreme beauty among projectile weapons. There is still another interesting fact about the shotgun and that is, its ballistic stubbornness. Rifles and their cartridges have yielded time and again to the coercion of science. From the day of the dry, unpatched round ball and its erratic performance, the rifle has been developed in velocity, accuracy, and range until we have standards of 4,000 feet per second and twenty-inch groups at 1,000 yards. These represent radical ballistic changes. The shotgun, however, goes right along driving its shot charge at about the same velocity as that of Joe Manton's flintlocks—a little faster in recent years perhaps but not enough to matter. It is impossible to drive a shot charge at velocities measurably in excess of 1,000 or 1,100 feet per second at the muzzle and retain regularity of pattern. It doesn't seem likely that a way will ever be found to get around this obstacle in the path of increased velocities.

Sim Berryman

The development of smokeless powder for shotguns did not greatly increase the effectiveness of the gun—it contributed mostly to the convenience of the gunner. It is cleaner, and the absence of smoke allows the shooter to mark the result of his shot. By selecting a dense, bulk on "progressive burning" powder the loading companies are able to give us cartridges to meet the special needs of target, upland game bird and wild-fowl shooters, but the shotgun that fires these loads is scarcely distinguishable fundamentally from those made by Manton in 1800. His tubes were of iron, or iron and steel. Ours are of steel. His guns were flintlocks or percussion locks. Ours are breechloaders, hammer, hammerless, doubles, singles, autoloaders, and "pumps," but these mechanical improvements have not changed the intrinsic ballistic properties in the least with but one exception.

That exception is the invention of the system of chokeboring. That little trick really accomplished the only important change to be noted in 300 years of smoothbore ballistics. The invention of the choke system is generally accredited to Fred Kimble, although W. W. Greener was the first to announce it and to offer chokebored guns.

I do not recall that Greener ever advertised his company to be the actual inventor of the system, but neither can I discover that he ever made an attempt to deny it.

In any event, the choke gave the barrel-borer a certain limited control over the density and regularity of patterns. Previously gunmakers had made extravagant claims concerning their special abilities to produce barrels that would shoot closer and harder than others, but the truth was that none of them actually knew how to do it. The good ones in the hierarchy took great pains to lap and polish their tubes, but until a gun had been tried none of them had the least idea as to the percentage or regularity of its patterns. An even pattern of from thirty per cent to thirty-five per cent represented perfection..

The interest in the subject was so keen that the great gunmakers of England and America held "gun trials." Awards of merit were based on pattern and penetration. The maker who produced the winning gun won a cup, a certificate, and the bulk of patronage of the sportsmen, despite the fact that he probably had not the least idea as to why his "champion gun" shot so well, and couldn't have duplicated it to save his blessed armorial bearings.

Greener swept the boards with his new chokebore but he couldn't keep the secret and in no time at all the cheapest, single-barreled, "mail order" gun could challenge the "best" guns of Europe and America in both pattern and penetration tests. The "great gun trials" were abruptly discontinued.

For many years following the introduction of the chokebore the full chokeboring was most popular, particularly in America. Gunners everywhere accepted the erroneous but understandable conviction that the sole test of shotgun efficiency was determined by its longest killing range. A sixty-yard, full choke gun was twice as efficient as a thirty-yard cylinder bore by this standard, and only time and experience has taught us that the dense pattern so desirable for wild-fowling, live pigeon, and trap shooting, constitutes an actual handicap when used on most species of upland birds in guns of sixteen bore or larger. Greener and others attempted to prove that the full choke was the ideal gun. A miraculous dispensation apparently enabled it to deliver close, killing patterns at long range and open, non-shattering patterns at short range. It ought to be obvious that the effect of a pattern of 300 pellets in a thirty-inch circle upon a duck at forty yards and that of a 300 pellet, twenty-four-inch pattern upon a woodcock or grouse at twenty-five yards would be quite different, as indeed it is, and as many a man has learned to his sorrow upon blowing his short range game into a useless wad of bloody rags.

When properly understood and appreciated, however, the choke is a wonderful attribute, first in shaping the pattern and second in controlling its density. The shape of the pattern is perhaps of greater importance than its density. The pattern as it appears upon the paper is the sum or composite imprint of all the cross sections of a flying column of shot, which may be anything from two inches to fourteen feet or more in length, depending upon the type of cartridge used and the distance of the shot charge from the gun muzzle at the instant it is intercepted. Obviously the most effective shape for the shot column is round—not square, oblong, or star-shaped. If the gunner shot only at birds crossing or quartering and all at the same elevation, an oblong horizontal pattern would be excellent for his purpose. If he shot only rising or dropping, straight-away birds, an oblong vertical pattern would suit his book precisely. Allowances for lead could be ignored. As a matter of fact some of the earlier gunmakers attempted to get specially shaped patterns by flattening the gun muzzles. Their complete failure to do so has saved gunmakers and gunners a terrific amount of brain fag. What a hellish mess it would be for the poor chap who has spent hours of anguish in trying to determine whether "The Gun" is to be ordered improved cylinder and half choke or quarter choke and modified choke, if in addition he had to pick out from a thousand samples the shape of pattern most suitable for his purposes.

The true cylinder is the most unreliable of all borings, both as to the shape of the patterns and their relative density. It is notorious for the way it has of balling shot. The same barrel may deliver a load of 9's in a welded lead slug capable of knocking out an African lion; the next load will be so badly dispersed as to be useless.

The slightest degree of choke—improved cylinder—appears to correct these eccentricities by rounding up the pattern and stabilizing the density.

But for the choke system guns of bore smaller than sixteen would doubtless have vanished from the sporting scene because of the inefficiency of small shot charges fired from true cylinder barrels. That would have been a major loss, for the most attractive features of the shotgun are emphasized as weight and size decrease. The little guns are handier and easier to carry, and for every sort of shooting except long range wild-fowling and competitive trap shooting, they are entirely adequate. As a matter of fact, the killing range of the sixteen is only about five yards behind that of the twelve; the twenty with the ounce load is nearly up to the full range of the sixteen bore. When we begin comparing big bores and small bores, we are likely to fall into the error mentioned earlier, that of judging efficiency by the extreme killing range alone. We overlook the fact that an experienced, competent gunner will fire a hundred cartridges at game at short and medium ranges for every one fired at extreme range. The ignorant gunner needn't be considered here—the greenhorn who with bland and irritating optimism pops off with a .410 at a duck 200 yards distant—a duck, I might add, that would have come to your stool otherwise.

Let us suppose that we had to select our shotgun from this list of specifications:

No. 1. A gun with a ten-yard killing range extending from fifteen to twenty-five yards *only.*

No. 2. A gun of any bore with a killing range between twenty yards and thirty yards, only.

No. 3. A gun with its killing range lying between twenty-five yards and thirty-five yards.

There would be others: No. 4, a thirty-yard to forty-yard gun; No. 5, a thirty-five-yard to forty-five-yard gun; No. 6, a forty-yard to fifty-yard gun; No. 7, a forty-five-yard to fifty-five-yard gun and a No. 8, a fifty-yard to sixty-yard gun, and as many more as you may wish to add. Each gun has only its specified killing range. For example, No. 1 wouldn't kill at under fifteen yards or over twenty-five yards.

I think that I know what would happen.

The boys with the new hunting coats would buy No. 8, the fifty- to sixty-yard gun or even No. 9 or No. 10; most of the veteran gunners would choose No. 1 for upland shooting or No. 2 if they lived in Hungarian partridge country, with No. 3 or No. 4 for wild-fowl. If only one gun was allowed for both upland and wild-fowl shooting the knowing veteran, the man whose game pockets bulge comfortably at twilight, would pick up No. 3 and depart in an aura of complete satisfaction.

The veteran's ranges lie well within the capacities of any bore from twenty to ten with the probability that a well-handled twenty-eight bore would also qualify.

"Nevertheless," wrote Markland, "I am sensible, there is no becoming sportsmen by book. You may here find the rules and proper directions for that end, but practice alone can make you masters. Bare theory may as soon stamp a general as a marksman. No—you must sweat and be cold, must sweat again and be cold again before you can arrive at any degree of perfection in this art."

Empty Guns and Loaded Woods

(*Continued from page* 8)

and other things. Over 160,000 deer and elk hides went into the manufacture of gloves and jackets for our forces last year. The short feathers and down of ducks and other waterfowl are going into sleeping bags for our men on the Arctic fronts and for warm garments which insulate our aviators from the frigid temperatures of their playgrounds in the skies. Somewhere in the vicinity of 90,000,000 pounds of fats were salvaged by our trappers for the manufacture of explosives last year and this year they expect to more than double that figure.

There's apparently a good bit of sporting ammunition in the hands of the shooters throughout the country. This with what little may be made available will have to suffice this fall. Therefore, make every shot count.

Doctor Gabrielson has made a special request to duck hunters that wherever possible they take mallards, pintails and widgeons in preference to other species. These are the ones that are most numerous and which constitute the greatest menace to field crops.

Above all, regardless of the shortage of hunting ammunition and whether or not you are able to get any sport shooting, get your hunting license as usual this year. It's more important now than ever. The game and fish commissions of the several states are wholly dependent upon the revenue derived from the sale of hunting licenses. They have no other adequate source of income. These game departments are of primary importance to safeguard and care for the game crop. American hunting is a vital part of American life; it is one of the traditions for which our men are fighting our enemies. The game must be cared for in their absence.

V 91 9 SEP 43 XU

"Dear Editor,"

THESE SMALL ARMS FIRING SCHOOLS for Pre-Induction Training, brought to the attention of your readers again in the article last month called "Target for Today," are fine things and need all the encouragement you can give them. We know, because we have completed two classes already and in rather uneventful but satisfying routine style. But then we tackled a bunch of high school kids! Brother, routine went overboard and nearly everything else went with it. They were the wildest bunch of cannibals I've ever seen in my life. Let me tell you about them.

When they arrived on the scene it was in the manner of a tornado. They came with a rush, all trying to get through the door at once. They bumped their heads on the door sills, they cracked their shins on the chairs and stools, but they never batted an eye. They were all over the place. They had the guns out of the racks and practically dismantled before you could say, "Jack Robinson."

They saw everything and they knew everything. Nothing phased them and you couldn't insult them. They knew all the answers. We might just as well have thrown away all the books and charts. What they wanted was shooting—not a lot of talking. I know because they told me so.

The first night they used the shooting mats to wrestle on and it took the whole club to throw them bodily off the range. The second night they brought in toads and frogs and turned them loose on the range to shoot at. Like a darned fool I lost my head and took a pot-shot at one of the durned frogs myself.

I'd go down to hang up targets and hear bolts clicking like castanets. It sent chills down my spine. I yelled, "BOLTS OPEN," 'til I was hoarse and threatened to fire back at them if they shot me in the rear.

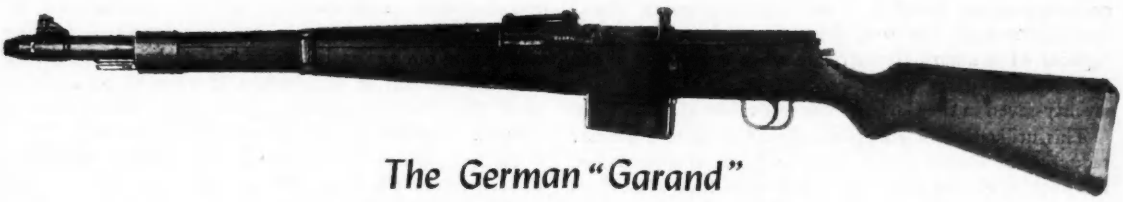
They had us crazy. We were about to throw in the sponge, give them their money back and tell them to go away. But somehow I got weak-minded and decided to see it through—if I could live that long. About the third session we grabbed them at the door, tied them up in slings and kept them on the floor while we talked *at* them. We kept part of them off the range while the others were shooting but every once in a while one would make a break and try to wrestle a gun away from one who was using it. What I mean, they wanted to shoot!

But they finally realized that we weren't kidding, fell pretty well into line and we established a sort of discipline. This training business isn't boring any more. We're going to take on another bunch after we whip this crew into shape. We may not live so long, but it'll be good while it lasts. We've got a system now—we meet them at the door with sawed-off shotguns and frisk them before we let 'em in.

Send five thousand brats like them to the Pacific Islands and they'd be all over the Japs before they knew what hit them.

Very truly yours,
JOHN ENDICOTT, *Adjt.*,
Kingan Rifle and Pistol Club.
Indianapolis, Indiana.

GEWEHR 41



The German "Garand"

By LT. CHARLES SCHWARTZ

THE GERMAN ARMY HAS NEVER been particularly partial to any sort of gas-operated weapon. In the small arms classification there appear to have been only two: the old Mondragon auto-rifle of World War I (invented by a Mexican Army officer and used by the Germans to a very limited extent) and the contemporary Neuhausen machine pistol.

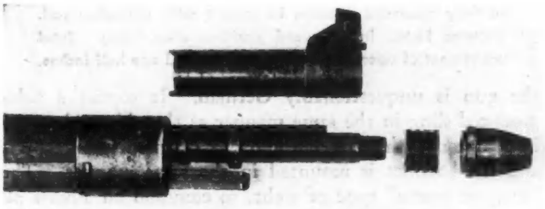
Recently, however, among the newer weapons of the Wehrmacht, is a 7.92 mm. (.31) caliber semi-automatic, gas-operated rifle, the Gewehr '41 or rifle, 1941. Three distinct modifications of the rifle are known to exist, the '41, '41-M and '41-W. Of these three, two are more or less identical, varying in minor details only; these are the '41 and the 41-W. The M version is another matter entirely and for all practical purposes may be taken to be an entirely different weapon. The two general types are similar only in that they are both gas-operated and that the gas take-off systems are the same. The exact status of the three types is not generally known, but it is believed that the '41 and '41-W models are the standard weapons. The M seems to be more of a transitory design incorporating the general external appearance of the old Gewehr 98K and a lock system not dissimilar to that of the standard German machine gun, the MG 34.

The sudden switch to a gas-operated weapon is surprising, particularly so late in the war. The tactical use to which the enemy is putting the new gun is also questionable. There is no reason to believe that it is intended to replace the long-standard, reliable Mauser. On the contrary, the relatively small numbers of the new rifle that have fallen into Allied hands indicates a rather limited issue—probably to such special troops as armored infantry or assault units only.

The loading system of the gun is simple in the extreme. Two standard five-round clips are used and the gun is loaded in exactly the same manner as any clip-loaded weapon. No special loading devices of any kind are necessary, which is an unquestionable advantage.

The functioning is unique, particularly as pertains to the gas-operating system. The customary gas-port is absent. In lieu thereof a form of gas-trap is used. This conical-shaped device is so designed that when attached to the muzzle (by threads) it makes it necessary for the bullet, after leaving the barrel, to jump a gap and momentarily plug the muzzle-opening of the cone. The following gas pressure then acts to drive a cylindrical gas piston, which is around the end of the barrel and against the base of the blast-cone, to the rear. The action is imparted to an operating rod which buttresses against the piston and works along the top of the barrel, under the hand-guard and beneath the sight-base. The end of the operating rod is in contact with the forward end of the retractor slide, and as the operating rod is driven to the rear under the action of the expanding gases acting against the floating piston, the retracting slide is driven to the rear. The total movement of the operating rod itself is only about one and one half inches, but the momentum imparted to the retractor slide is enough to drive it farther to the rear. A projection on the underside of the retracting slide engages the bolt locking lugs (within the bolt), and after the slide has moved a total of nine sixteenths of an inch, this projection cams the lugs in, withdrawing them from the locking recesses in the receiver. The bolt assembly and retractor slide then recoil together for the remainder of the recoil distance. Extraction and ejection are accomplished in the usual manner. As the bolt rides over the hammer, a cam on the under side of the bolt forces it down until it is engaged by a sear.

The gun is fired from a closed bolt. Consequently, upon completion of recoil, the compressed recoil spring serves to drive the bolt and retractor slide forward again, inserting the top cartridge from the magazine into the chamber. Most of the above is quite usual and deserves no further explanation.



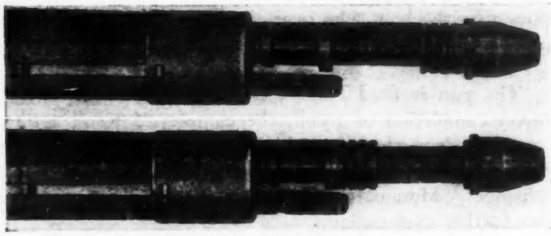
Fore end of rifle "exploded"—showing "blast cone" and floating piston. Note holes immediately in rear of front sight band; it is through these holes that the expanding gasses are permitted to escape when the plunger reaches its extreme rear-ward position.

The rifle is quite simple for a semi-automatic weapon and is, in all probability, very inexpensive to manufacture. The overall length of the gun is forty-four and three fourths inches, which makes it a full one and one fourth inches longer than the Garand. The rifling is a uniform right-hand twist, with four lands and grooves. In this respect, also, the rifle is identical with the old 98 Mauser weapons. In keeping with the general leanings of German arms-makers toward simplicity and cheapness of construction, a large percentage of the component parts, both functioning and non-functioning, are made of simple stampings and even castings. The operating rod, for example, is stamped from a sheet of flat steel, then ridged for strength. The floor plate, magazine assembly, butt cap, upper and lower bands, and operating-spring assembly are all simple stampings. Paradoxically enough, however, although simple in design, the Gewehr 41 is amazingly intricate when one considers the 115 separate parts which go into it. There are only seventy-seven in the Garand—the equivalent U. S. weapon!

This utilization of stampings should indicate a definite reduction of weight as well as reduced cost of production; but such is not the case. As a matter of fact, the rifle is quite heavy, weighing ten and one fourth pounds without sling or bayonet. This compares very unfavorably with our M1, which weighs only nine and one half pounds, and has a barrel a full two inches shorter than that of the Gew '41! The gun has a tendency to muzzle-heaviness, due, no doubt, to the rather massive gas-trap assembly which is concentrated at the muzzle. The operating handle is situated in a rather awkward position on the retractor slide. There must be some reason for this because it could be located elsewhere just as easily.

In line with the German utilization of plastics wherever possible (for example, the butt-stock of the MG 34 and the frame of the Schmeisser machine-pistol) the entire hand-guard of the Gew '41, from the upper band to the sight base, is made of a plastic material. This, however, represents the only use of plastics in the weapon.

In the general shape of the stock and fore-end there is a very definite relationship to the old 98 Mauser series; the gun is unquestionably German. It carries a side-mounted sling in the same manner as the older rifle (and in common with most of the newer German small arms), and the bayonet is mounted in the same manner. The "tangent-curve" type of sight, so common on almost all European weapons, has also been retained. The magazine, holding ten rounds, is an ordinary stagger-type box. Both the magazine body and the follower are simple stampings. The follower spring is wire, rather than the usual "flat-leaf." This magazine is quite similar to the old "20-shot" magazine used on the M1903 in World War I. The cap type butt-plate of the newer model "Karbiner 98K" has been retained, although the laminated "ply-wood" stock of the Kar 98K has not been reproduced, as far as is known, on the Gew '41.



Top cut shows fore end with gas cylinder removed, piston in fully rearward position in contact with operating rod. Bottom: Piston in rearward position after firing. Total movement of operating rod: about one and one half inches.

The trigger mechanism is rather complicated and is so designed that single springs serve multiple functions. All of the springs in the gun are of the "wire" type, and disassembly and assembly of the trigger group is quite involved. However, it can easily be cleaned while assembled. As a matter of fact, it is doubtful that it ever need be taken down other than for replacement of parts. The magazine assembly is disengaged and removed from the floor plate in a manner practically identical with that used in our M1903. Removal of the bolt-group, retractor-slide, and receiver-group is accomplished by simply locking the slide in its fully rearward position and lifting out the entire assembly. Although apparently a simple method of disassembly, it must be remembered that the "locked together" parts must themselves be separated from each other in order to be serviced.

As previously mentioned, a few minor differences exist between the Gew '41 and the Gew '41-W. The earlier model '41 does not have the magazine release button, which is provided on the left side of the stock of the '41-W, directly above the extended magazine. On the '41 the bolt is released to go forward by pressing down on the follower (provided the magazine is empty). On the later model this is mechanically accomplished by merely pushing in on the button provided. There are slight differences in the overall lengths of the floating piston, and consequently the two operating rods are of slightly different lengths.

The gun fires well, and no malfunctions occurred during a limited amount of firing. The "kick" is not particularly pronounced, being no more violent than that of the older bolt operated rifle, or of our M1903 or M1. The floating piston carbons up rather quickly, but there is no reason to believe that this will particularly affect the operation of the weapon, except over a particularly long period. It must be pointed out that the gun was not subjected to a prolonged and comprehensive firing course. Only a limited amount of ordinary firing was done, and that with the gun clean and well lubricated. How it would stand up to rigorous firing under disadvantageous conditions is not known. However, the action is relatively simple and apparently quite rugged. Eventual break-down of parts as a result of prolonged usage is another subject entirely, and only time will determine the facts of that matter. There was a tendency to heat quickly—the gas cylinder, particularly.

Disassembly of the gas-operating system is quite simple. A small detent located on the sight base serves to lock the muzzle cap. By pressing in on this detent, the muzzle cap is free to be unscrewed from the barrel. The gas cylinder and floating piston will then slide off to the front. In order to remove the operating rod and spring it is necessary first to remove the upper and lower bands, releasing the plastic hand guard. The rod can then be lifted from its seat and the operating spring assembly in the stock, can also be lifted out.

On the whole, the system of disassembly is not too bad—but not too good. Certain parts of it, such as the gas-operating system, are quite simple but other more complicated assemblies more than make up for it.

The weapon seems to be very well made, and well designed. It has some good features, but most of it is not particularly out of the ordinary. It will be interesting to observe the use to which the enemy will put this new weapon. At such a late point in the war it seems unlikely that it will be widely utilized. German tables of organization have always been built around the light machine gun as the basis of fire. The general adoption of a semi-automatic rifle would indicate a change of attitude. Could it be that the German Army is considering the individual soldier as a *rifleman*, finally?

Installing Sight Equipment

By JAMES FEERICK

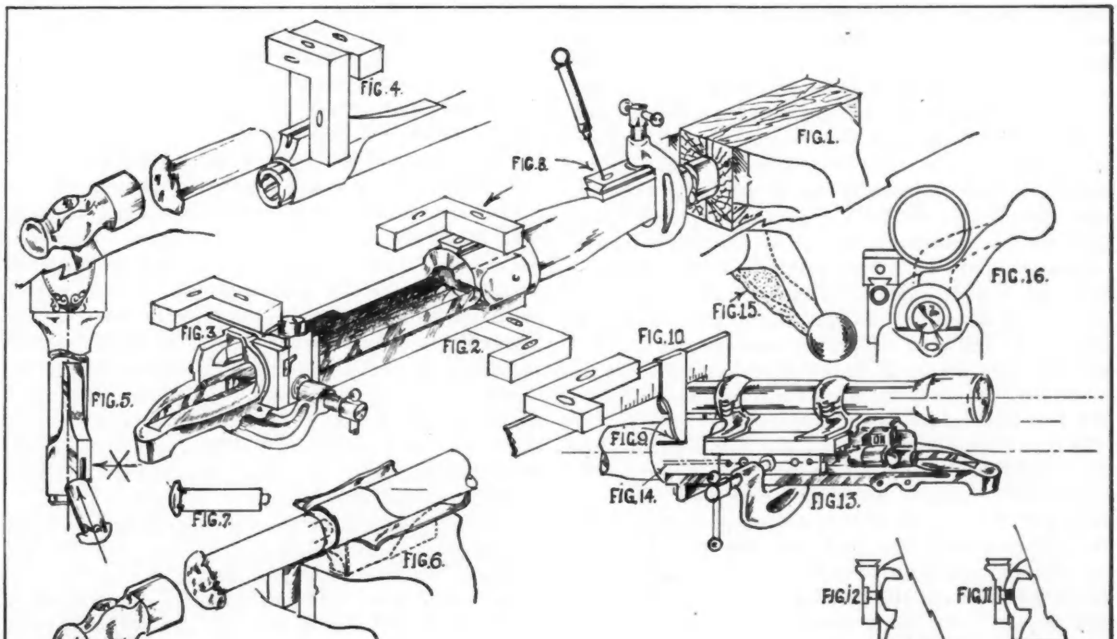
To those unfamiliar with the *cross test level* in gun work, I would like to offer some of its applications in gun sight installations. It assists greatly in the proper positioning of the receiver sight, the front sight ramp, scope blocks and bases, lining up the barrel in the receiver by means of the front sight when no draw mark is visible, and many other jobs where the fittings are to be aligned in relation to other parts. It is a great timesaver and an accurate aid that no gunsmith, amateur or professional, can afford to be without. This differs from the surface plate system and is quicker, easier and more accurate.

We shall first apply its use to the fitting of the receiver sight. Remove the stock and clamp the action by the barrel in a vise whose jaws are equipped with hardwood inserts channeled to fit its contour (Fig. 1). With the vise drawn snugly upon the barrel, place the level against the underside of the receiver just aft of the recoil lug (Fig. 2), rotate and raise or lower the receiver until both bubbles are centered. The level should be held so that both bubbles are visible. The vise should then be tightened and rechecked to determine whether this tightening disturbed its setting. This leveling of the action is the first step in all the operations to follow.

Now place the sight in its approximate position on the receiver. If it is set too far to the rear, it will bind the bolt handle. On some guns if set too far forward, it will interfere with the feeding of the clip. When its fore and aft position is determined, fasten it to the receiver with a "C" clamp and lay the level on its beam (Fig. 3). Rotate the sight base on the receiver until the beam is level, tighten clamp, and then with a scribe, trace around one hole and remove the sight.

Using a sharp center punch and hammer and a magnifying glass, find the center of the scribed circle by sight and make a light imprint. See if the center was found correctly—if not try again. If only slightly off, hold the punch in the mark at such an angle that it points toward the center. Then tap the punch until the imprint *is* in the center. Now hold the punch vertical and deepen. The action should be clamped in a drill press vise and placed on the drill press table where the drill is fed intermittently until the hole is directly in the center without "walking." It is sometimes advisable to level the drill press vise on the action when drilling these holes as this will assure the action being held at the right angle in relation to the drill. It will also assure the action being held at the same angle for all holes to be drilled, particularly when round surfaces are involved. Having drilled this hole, place again in the vise and with a taper tap and plenty of lard oil, tap to a full thread. Now screw the sight to the receiver and scribe the other hole, drill and tap.

It is possible to mark both holes, drill them and tap them at the same time but one must be exact when he punches the centers of the scribed circles. He must take particular care that the drill point does not "walk." The drill should be fed so that only the point enters the punch mark. Then remove the work from the table and examine to determine whether it is properly centered. If a person is careful, some time can be saved but for the beginner a little more time spent in this way will result in a better job.



When placing the front sight ramp or base, level the action as before. Using a wood or lead "driver" and a suitable hammer, tap the ramp until it is nearly in place, then check with the level by placing it against both sides of the ramp (Fig. 4). If both sides are not parallel, it will be necessary to figure a setting between the two. If the ramp should be off center, it should be driven over by placing the lead driver at the front at such an angle that will drive it to the rear also as in Fig. 5. Driving directly to the side will result in a marred sight.

To remove the ramp, place the ramp itself in a vise with a copper shim or a couple of pieces of a "calling-card" to protect it from the jaws as in Fig. 6. This will require placing the action topside down so the ramp may be gripped in the vise. Be sure to locate the ramp in the center of the jaws so the grip will be uniform. With a piece of copper rod to serve as a driver (Fig. 7), (brass will mar and will not take the place of copper in this operation), whose diameter is smaller than the muzzle so that it may enter the ramp's barrel band, and with a pilot formed on its end to fit in the bore so the danger of striking the band is eliminated, drive the muzzle of the rifle back through the barrel band.

The same leveling procedure is undertaken when scope blocks are installed. First, it is determined where they are to be placed, one usually on the receiver ring and the other on the barrel at such a point to give the proper number of minutes of angle for the particular mounts being used. The receiver block should first be installed using the lowest block obtainable—attach to receiver by a "C" clamp as in Fig. 8 and then pressing the level firmly against it, rotate it upon the receiver ring until the bubble centers. Tighten the clamp and scribe one hole. Do not remove the action from the vise until the drill press vise has been clamped to the receiver directly under, or as close as the recoil lug will permit, the hole to be drilled. Place the level on the drill press vise base and adjust until bubbles center. This will assure the drill press vise holding the action on the drill press table so the drill will not enter at an angle. Drill and tap this hole as previously described. Now screw the base in place and scribe, drill, and tap the other hole. These two holes can be drilled simultaneously, but extreme caution must be taken.

It is better to sacrifice time and get these blocks absolutely level. The front block should be tackled similarly. To select a block of the proper height, try one that appears right and by laying a bar over both blocks with the level placed on the bar, if the bubble centers, or nearly so, the blocks are parallel to the axis of the bore and should be right. Great care should be taken not to drill through the barrel. Rather than setting the stop on the drill press and feeding until the stop is felt, I ascertain the thickness of the metal at the place where the block is to fit—then, by short feeds and examinations I can determine accurately the proper depth.

Weaver-type side mounts are also simplified by these methods. The fore and aft position should be carefully ascertained by noting where the screw holes will come through. This should be done with scope in mount. In certain places these holes might interfere with the movement of the action such as ejectors, etc. The thickness of the metal should also be observed as it may be desirable to place the mount further to the rear so the front screw hole can go through the receiver rather than through into the breech of the barrel where a bottomed hole will be necessary and thereby sacrifice a thread or two. Having found its position, place a caliper rule around the scope so that the tips of the jaws just touch the receiver ring (Fig. 9), place the level upon the caliper's beam (Fig. 10) and rotate the mount until level. Operate the bolt handle to check for clearance; bore sight the rifle and adjust the mount so the scope also points at the same object. Before this is done, however, the reticule should be centered in the tube. This can be done by holding the scope rigidly, as in a vise, and sighting on an object that can be divided with some equality.

Move the reticule to its highest position and note on the object where it intersects, then move the reticule to its lowest position and again note where it intersects. Now move the reticule half way between these two points. If the reticule in this position is made to converge at a distant point with the axis of the bore (bore sighting), a wide margin of adjustments can be had even if a slight error is made in the mounting. One hole should now be scribed, the drill press vise attached as described and the first hole drilled and tapped. Screw the mount in place and again bore sight before proceeding.

Installing a side mount is a difficult job although the method of marking, drilling, tapping, etc., is the same. The bases of these mounts come flat and either the base must be grooved to conform with the receiver (Fig. 11), or the receiver flattened to conform with the base (Fig. 12). The latter course I do not approve of because the receiver is already thin at this point and to grind it any thinner would deprive us of extra threads (Fig. 12) to grip the screws. The base can be grooved (Fig. 11) and greater strength will be had by the fitting of two curved surfaces especially to withstand the tortion stress set up by violent recoil—two taper pins usually accompany the mount and their purpose is to absorb the recoil and thus relieve the screws of this strain. The base with scope and mount is clamped to the receiver's side (Fig. 13), its height should be governed by the bolt handle and the receiver ring.

It is possible on some guns with large receiver rings to place the mount low enough so that the mount cannot be slid off the base—it being obstructed by this large ring. Test by sliding off from the base. If securely clamped to receiver, no difficulty will be had. When its position is found, scribe across the base at the point where the receiver's curve bears (Fig. 14). This scribed line indicates where the curve is to be formed on the opposite side and also indicates the line for our screw and pin holes. Divide this line in five parts and drill and counterbore the screw holes—the pin holes may be drilled when the base is firmly fastened to the receiver by all three screws and a taper reamer run through both together. When the curve is formed in the base, clamp in position and by using the caliper rule (Fig. 10) as previously described, its exact over bore placement will be assured. Drill one screw hole in receiver at a time although both pin holes should be drilled together.

A simple method for altering bolt handles is to fill the underside of the handle with welding (Fig. 15) and to grind off the topside to clear the scope (Fig. 16). If the weld is added before the handle is cut, the position of the knob will not be disturbed and will require no special jigs to hold the knob with relation to the rest of the bolt.

Snapshooting Rifles

By FRANCIS E. SELL

"SOME DAY I AM GOING to get me a rifle like that old one I used to carry. She wasn't the best looking gun in the country, but she sure did lay them in when it came to snapshooting." My partner was referring to an old remodeled Springfield weighing about nine pounds. He considered his present rifle with a discouraged look.

"Here I have been chuckling to myself all day about what a lovely thing this lightweight abortion was for brush shooting, but in the showdown I couldn't keep it on the target at all."

It was easy to see the point of his discouragement. He had planned and schemed, and had finally laid his money on the line for a new deer rifle. A lightweight affair it was. No more carrying an eight- or nine-pound rifle in the woods, coming into camp dead tired at the end of a day's hunt. Now he had one which was easy to carry in the woods, and theoretically, just the thing for snapshooting. It had a light twenty-inch barrel, and was built on a Springfield action for the .250-3000 Savage cartridge. Weighing about six and three-quarters pounds, it was easily carried in the woods.

But the real test of a rifle is on game, especially in woods hunting where most of the shots are obtained on running game. Here the rifle proved to be a complete frost. The conflict between theory and practice became obvious on the first deer my partner jumped.

After his first lamentable failure, he had two more chances. On one, a good head too, he failed again; then he connected with a small two pointer to fill his license. I am confident that if he had shot a heavier rifle he would have connected with the first deer he jumped. He is just that kind of shot. He has spent the better part of twenty autumns on the deer trails. But he wanted to go light and he did.

In theory going light is understandable, but in practice it just doesn't work out. My partner, like a great number of hunters, spends the greater part of the year behind a desk and has little opportunity to keep in good physical shape for the fall hunt. Being out of training, he looked with yearning on a lighter rifle, something which would be more portable for him in the woods.

Once coming up out of a steep canyon, after working his way through a tangle of windfalls, he was completely winded. When he gained the top of the ridge, a nice buck jumped up about sixty yards away. It was a difficult shot, but not an impossible one for him—had he been armed with his old heavy rifle. But he muffed it. The weight of that old rifle would have compensated for his heavy breathing. In snapshooting of this nature a heavy rifle has one advantage which the average hunter quite often overlooks. It is easily demonstrated that one can get on a moving target quicker with a short, lightweight gun. And so far as a shotgun is concerned, this can be proved in the field. But in this type of shooting the hunter is not usually winded from the heavy going. Deer stalking is quite another matter.

Regardless of how slowly he hunts, the average rifleman needs a fairly heavy, stable rifle in the woods. When the pay-off comes it often means the difference between venison, and bacon and beans again. Of course, a woods rifle need not be overly heavy. A rifle weighing between seven and a half, and nine pounds is about right. But the distribution of that weight is important.

A rifle for snapshooting should have a *slight muzzle heaviness.* In all the standard models, it is a simple matter to give all these fine arms the slight muzzle heaviness which fits them for snapshooting. This is done by taking off the buttplate, removing enough wood to move the center of balance slightly ahead of the receiver. Thus, my Model 64 Winchester deer rifle balances six inches in front of the trigger. This may seem inconsequential but it means the difference between a rifle properly balanced for snapshooting and one that is out of balance.

Aside from the advantage of the first shot with a fairly heavy rifle, there is another factor to take into consideration. The first shot, of course, is the one which should get the game, for quite often it is obtained before the deer is moving very fast. But the second shot is important, too. A rifle which is slightly muzzle heavy is not so disturbed by the act of reloading as is a short, light-barreled rifle. The time between a first and second shot, both accurately placed, will be in favor of the heavier rifle.

Here we haven't the same problem as one with a lightweight shotgun. In the average field, shotgun shooting, it is quite possible to take game five or six yards closer with a lightweight gun because it is easier to swing quickly. But it must be remembered that one is hitting those birds with a thirty-inch pattern. If the gunner had to take them with the exact center of that pattern, he would want a gun slightly heavier than the six-pound twenty gauge. But the woods hunter seldom has a chance to swing with his running game. It is too much of a touch-and-go affair. While a pound or so weight may slow him down in swinging with game, it will not slow the hunter in snapshooting at deer.

In my section of the backwoods, rifles, like men, establish reputations. I know of several rifles, which though second-hand, can be sold for the price of a new one. The heavy-barreled Savages, Model 99, with factory numbers around 100,000 are cherished by the dyed-in-the-wool snapshot. Several of the older Winchesters with their long, heavy barrels have made enviable reputations among woodsmen of this section. By the same token, those light-barreled affairs such as the Winchester Model 55, happily discontinued, as well as the ultra-light Savages, are a dime a dozen.

The Model 94 Winchester with its long, heavy, twenty-six-inch barrel and full length magazine, was tops for snapshooting. It had plenty of weight up forward and, fitted with a tang peep and a gold bead front sight, it was deadly in the hands of an experienced brush hunter. In the remoter sections where woods hunting is the rule and not the exception, and where a man and his rifle is often a lifetime partnership, many of those old Model 94 Winchesters in .38-55 caliber, as well as .30-30 and .32 Special, are still taking their share of the deer.

Happily, the fad of the ultra-light rifle is passing. There is an obvious return toward the weight of those old long-barreled rifles. In the past several years all the arms companies have put out very much better woods rifles than those lightweight affairs which had such popularity in the late twenties. Witness the Model 64 deer rifle, the Savage 99RS, Remington 81 and 141, as well as their excellently stocked bolt actions. These are heavy guns.

A woods rifle, of course, will be carried many miles for each shot it is fired, so it should be portable. It doesn't appear logical, though, that portability is more important than accuracy and dependability. Nor, for that matter, is it logical to suppose that a pound of difference in the weight of the rifle will make a great deal of difference in the hunter's fatigue at the end of the day. That extra pound, though, is good venison insurance, especially if it is out where it will stabilize that wobbly rifle barrel while the hunter is making the shot after a hard workout.

There is much to be said for going light in the woods. There are many ways in which the hunter may simplify his equipment such as lighter shoes, lighter clothing, and less unnecessary junk. But when he obtains less weight at the expense of his rifle he is letting himself in for disappointment. If he feels that his rifle is too heavy for snapshooting, more than likely it is muzzle light and slightly out of balance for this type of shooting. The remedy is not to shorten the barrel, thereby making it still more muzzle light than it was. Take some of the weight out of the stock, add a strip of lead between the barrel and the forearm if need be, but if he values stability he should not sacrifice weight to portability. Portability is an asset to any gun, but to the real woodsman and sportsman ease and comfort are secondary; getting the game is his chief satisfaction.

New Springfields

(Continued from page 10)

of leeway the range requirements of the average soldier.

The windage index knob which is turned to move the yoke to the right or left is also graduated. Each division on the scale represents four minutes of angle or a change in the point of impact of four inches at a range of one hundred yards.

A small coiled spring is used to keep the sliding aperture from rocking and a flat spring to maintain tension so that rough treatment will not easily change the sight setting. A specially shaped flat spring between the windage knob and the fixed base keeps this portion under tension and is so designed as to click at every quarter turn. Each click represents a change of one minute of angle or a horizontal change of impact of one inch at a range of one hundred yards.

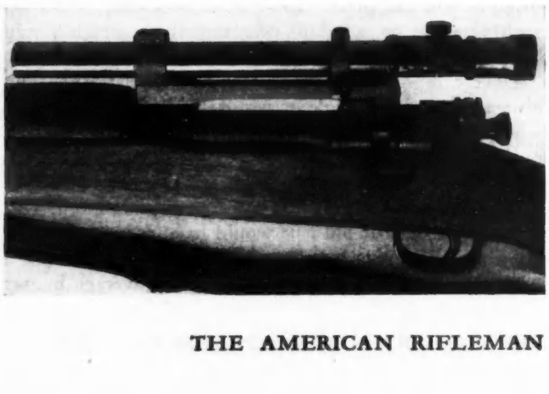
The front sight is now forged in a single piece instead of two as in the past. The blade is inserted into slot, however, as usual. It requires close inspection to note any difference between the old and new front sights.

The case for the oil and thong assembly is now made of steel and plastic instead of brass.

No longer is the trigger guard a machined forging. It is now stamped out of sheet metal. The magazine floor plate is no longer removable, but is integral with the trigger guard. The magazine follower and spring assembly is now inserted into place from above rather than from below the receiver as heretofore. The new follower is not machined from a forging as in the past, but is stamped from sheet steel. Other machined forged parts now made of sheet steel stampings include the bayonet stud band, the swivels, stacking swivel and middle band, and the buttplate assembly. The net result of all these changes, as might be expected, is to lighten materially the weight of the rifle. This is a decided advantage to a heavily laden soldier.

Urgent requests have been received from several theaters of operations for a rifle equipped with a telescope to be used by snipers. It is, of course, possible to mount a scope on the receiver of the Springfield and it was, therefore, chosen as the most suitable weapon for this purpose. Both Lyman Alaskan and the Weaver Model 330-C telescopes were tested and approved by Headquarters of the Army Ground Forces. So equipped the Springfield has been standardized by the Ordnance Department as Rifle, U. S., caliber .30, M1903A4 (Snipers).

A modified Redfield mount attached to the receiver fixes the scope to the rifle. (See illustration.) All adjustments for elevation and windage in these two scopes are, of course, internal.



KILLING POWER

By E. BADEN POWELL

PART V

WE HAVE TWO BULLETS in Table V, which, upon leaving the muzzle, possess but a small practical difference in energy. Yet one who has tested both *extensively* on animals of different weights *knows* that the .30-30 will kill as quickly animals weighing seven to twelve times as much as this Swift factory load *at the longer ranges* at which these cartridges are still accurate enough to make occasional hits on larger animals (200 to 400 yards which is beyond the high velocity shock effect range of this .220 Swift load) provided the animals are hit in similar position, and all other conditions are equal. At 400 yards the above Swift bullet has about as much killing power left as a .22 Special rim-fire high speed bullet has near the muzzle. The Swift bullet would be effective on chest shots for animals not exceeding fifteen pounds in weight. On the other hand, the .30-30 slug at 400 yards would give a good account of itself if it struck the chest cavity of a 180-pound buck. The old .32-40 165 grain black-powder load was a fair killer at 100 yards on deer with its slug possessing about the same remaining velocity.

Stated in a more definite manner, a fifty- to seventy-grain .22 caliber bullet is a good varmint killer but a poor deer load, regardless of how high its muzzle velocity under most practical hunting conditions. A .25 to .28 caliber 110 to 180 grain bullet is a satisfactory deer and sheep load, but an inadequate big bear or lion load, regardless of how fast its muzzle velocity. A .30 and .40 caliber 225 to 350 grain bullet is a dependable lion and big bear load, but not a safe elephant load, regardless of how great its velocity. These highest velocities are limited, of course, by TOLERABLE recoil and practical gun weight.

However, the use of bullets of higher velocity by competent marksmen who are capable of taking advantage of the greater range and accuracy possible, results in a proportionately greater number of clean kills. This is because of the greater ability to place the bullets where desired because of flatter trajectory to *usually*, but not always, reduced wind effect on the bullet, and to less required lead on moving targets, due to swifter time of flight. (Note difference in flight time and bullet drop of .220 and .30-30, Table V.)

In the final analysis, the average hunter should not be taught the maximum weight of animal that his load will kill under perfect hunting conditions, but rather the maximum weight of animal his load will kill *humanely* and *consistently* under adverse hunting conditions. The latter weight may be only a tenth of the former. He should also remember when selecting a load that each different weight of bullet, even in the *same caliber*, may require a different barrel length, "twist", cartridge-case *size* and *shape* and *powder*, to obtain highest velocity, killing power, accuracy, and efficiency, and that few such combinations are available in either rifles or pistols except to the gun crank handloader.

And now a few lines about another "ballistic mystery" which uses up much printers' ink and shooters' arguments, i.e., relation of bullet spin to killing power. Briefly stated, bullet spin tends to keep a bullet head on, both before and during penetration, and helps for deeper penetration with bullets that hold together after impact. In bullets that "blow up", spin tends to scatter the particles in a whirling fashion, or "expanding cone", during penetration due to centrifugal force somewhat like a charge of bird shot fired from a rifled barrel, and imparts a few additional foot-pounds of force or kinetic energy to the animal tissue during penetration due to said centrifugal force. Many bullets "wobble" or gyrate about their axis during the earlier part of their flight, as well as spin, and upon being deformed due to "mushrooming" or expansion usually become heavier on one side than the other, and consequently spin out of balance, which increases their arc of gyration and sometimes changes the direction of their course. All of which tends to increase the size of hole punctured and the cross-sectional area of tissue destroyed.

Sometimes this wobble causes very long spitzer-type bullets, particularly solid-jacketed ones, to emerge from an animal at almost right angles to the direction of entrance, due to the bullet striking the side of a bone angling at the same incidence as the bullet's gyration at the instant. Loss of spin, extreme gyration or lack of dynamic balance due to deformity cause bullets to "keyhole" and turn end over end during penetration. The amount of spin of any bullet during its penetration through animal tissue depends upon the depth of its penetration, and at most, in the highest-speed bullet, amounts to only one or two complete revolutions. Therefore, any appreciable increase in killing power due to "heat" generated by the faster spin of one bullet over another in contact with animal tissue during penetration, or to other phenomena attributed to spin or wobble can best be discounted and forgotten in the case of bullets that hold together. However, in bullets that "explode" upon impact it probably adds something to their high velocity shock effect in a similar manner to that of a "multiple-pellet" shotgun-type charge. But be that as it may, its effect is erratic, unpredictable, and undependable from shot to shot.

It is extremely gratifying to read sane articles published from time to time by some of the shooting

TABLE V

Cartridge	*Bullet Weight*	*Muzzle*		*At 400 Yds.*		*At 300 Yds.*	
		Vel.	*Energy*	*Vel.*	*Energy*	*Drop*	*Time*
.220 Swift	46 Gr HP.	4140 f.s.	1750 f.p.	1335 f.s.	181 f.p.	18 ins.	.306 sec.
.30–30 WCF	170 " "	2200 "	1830 "	1285 "	620 "	48 "	.500 "

V 919 SEP 43 XU

authorities, accurately portraying and comparing the killing power of the older black and smokeless powder lever action rifles, which are so much discredited by most present day writers. Younger generations seem prone to question and belittle all achievements and performances of the past, unless they witness a repetition of the act, or until they have obtained sufficient wisdom to analyze the record with full understanding.

Two of Dad's stories that provoked skepticism in earlier years concerned the killing with his .45-70 of his first great silver-tipped grizzly bear in 1889. "Big as a buckskin horse", he said. And later he shot a huge stag in the head at a half mile with the same gun with open sights, and the top of the front sight held so the deer appeared standing on top of the bead in full view with the rear sight elevated to top position.

Dad said it took five of the 500 grain slugs at 1,200 f.s. velocity to kill the bear, one breaking his back and the last shot broke his neck at ten yards range while still charging with his hind end dragging. The bear story was verified in detail when the writer was past thirty years of age by another reliable witness to the act. Conviction that the stag story was in all probability true about the half mile claimed "stepped" by Dad and his

CHART 1

CARTRIDGE	BULLET wgt. in grs.	type	VELOCITY in f.p.s. muzzle	100 yds	PATH OF BULLET "0" in.	midway of range in.	50 yds in.	75 yds. in.	100 yds. in.	WIND DRIFT 25 yds. in.	50 yds. in.	75 yds. in.	100 yds. in.	TISSUE TYPE	ANIMAL WEIGHTS head K= 100,000 25	chest K= 200,000 50	75	bell K= 400,00 100	VALUE OF "C"	TIME of BULLET FLIGHT	LOADED BY
.22 Short Hi-Vel Pistol	27	LHP	1035	862	+ .72		0	-3.50		.19	.75	1.69		MR	7	3			.094	.320	ALL
.22 Long Hi-Vel Pistol	27	LHP	1125	908	+ .59		0	-2.92		.20	.80	1.80		MR	7½	3½			.092	.300	ALL
.22 Long Hi-Vel Pistol	37	LHP	1160	966	+ .53		0	-2.60		.19	.78	1.74		LR	15	7			.122	.289	ALL
.22 Special Hi-Vel Pistol	40	LHP	1170	963	+ .53		0	-2.60		.18	.73	1.63		LR	17½	8½			.115	.286	ALL
.25 Automatic Colt Pistol	50	SM	820											XR	20				.103		ALL
7.63mm. Mauser Pistol	86	SP	1420	1102		+1.12		0	-3.02	.19		1.74	3.10	MR	98		43		.134	.243	R
7.65mm. Luger Pistol	93	SP	1250	1034		+1.46		0	-3.14	.16		1.46	2.60	MR	102		46		.145	.266	WRP
.32 Automatic Colt Pistol	74	SM	980											XR	52				.115		W
.32 S.&W. Pistol	88	L	720											HR	54				.137		R
.32 S.&W. Long Pistol	98	LWC	820	725	+1.31		0	-6.41		.15	.63	1.41		MR	77	37			.115	.391	H
.32-20 Pistol	100	L	1030	918	+ .71		0							HR	100				.156	.312	W
9mm. Luger Pistol	125	HP	1150	982	+ .32		0							HR	172				.139	.276	ALL
.357 S.&W. Magnum Pistol	158	LHP	1510	1235		+ .88		0	-2.14	.12	.50	1.11	2.00	LR	358		162	78	.191	.219	H
.38 S.&W. Pistol	200	L	630											XR	247				.224		WX
.38 Short Colt Pistol	130	L	770											HR	127				.145		W
.38 S.&W. Special Pistol	158	L	870	799										HR	212				.176		ALL
.38 S.&W. Super Police Pistol	200	L	775	728										HR	305				.224		X
.38-44 S.&W. Pistol	158	L	1175	1020		+1.61		0	-3.73	.14		1.30	2.30	MR	282		131		.176	.277	WRP
.38 Automatic Colt Pistol	130	HP	1300	1058										HR	206				.145		ALL
.380 Automatic Colt Pistol	95	SM	970											XR	84				.105		WRP
.38-40 Colt Pistol	180	SP	985	887		+2.37		0	-4.95	.10		.90	1.60	MR	305		147		.159	.323	PX
.41 Short Colt Pistol	160	L	720											HR	180				.141		ALL
.41 Long Colt Pistol	200	L	745											HR	292				.176		ALL
.44 S.&W. American Pistol	218	L	695											HR	325				.168		R
.44 S.&W. Russian Pistol	246	L	770	714										HR	456				.187		ALL
.44 S.&W. Special Pistol	260	LHP	1100	986		+1.85		0	-2.97	.12		1.07	1.90	LR	720		342	166	.197	.291	H
.44-40 Colt Pistol	200	SP	975	875		+2.48		0	-4.49	.11		.96	1.70	MR	378		179		.152	.325	X
.45 Colt Pistol	250	L	870	793		+3.14		0	-6.13	.12		1.07	1.90	MR	530		253		.160	.363	ALL
.45 Automatic Colt Pistol	230	SM	810	736	+1.35		0	-6.35	-14.75	.11	.45	1.01	1.80	XR	418				.147	.388	ALL
.45 Auto-Rim Pistol	230	L	820		+1.30		0			.10	.44			HR	420				.147		ALL
.455 Webley Auto. Pistol	224	L	710											HR	348				.135		W
.455 Colt Mark "2" Pistol	265	L	770	709	+1.52		0			.10	.40			HR	524				.169		W
.577 Solid Pistol	450	L	725											HR	1435				.166		B
.38 S.&W. Spec. Pistol Target	148	LWC	770	675	+1.59		0	-7.11		.15	.63	1.41		MR	163	79			.105	.415	ALL

EXPLANATION OF CHARTS

Bullet Type, L=solid lead; SP=metal cased soft point; HP=metal cased hollow point; LHP=lead hollow point; SM=solid metal cased; LWC=lead Wadcutter. **Path of Bullet,** above (+), on (0) and below (—) point aimed at in inches when line of sight is ¾ in. above bore of gun at muzzle. **Wind Drift** of bullet in inches for air currents of 10 ft. per sec. (6.8 mph.) at "0" F. temperature and 30 inches barometric pressure, blowing at 90 deg. angle to path of bullet. **Tissue Type,** LR=low resistance animal tissue, MR=medium resistance animal tissue, HR=high resistance animal tissue, XR=thick skin and bone animal tissue. **Animal Weights,** maximum weight animal in pounds, designated projectile will kill humanely by spine, brain or other ganglionic shock; by heart, lung or other pulmonary hemorrhages; and by nerve transmitted shock when shot in liver, stomach, intestines or other viscera at maximum practical ranges in yards. **Loaded by,** W=Winchester, R=Remington, B=British. P=Peters, X=Western, G=German, H=handload, ALL=all US cartridge makers.

companions, and the statement "you could count to five before we 'saw' the bullet hit" did not come until a good many years later.

The knowledge at the age of twenty of how to determine the remaining velocity of any bullet at any distance, and a pretty fair idea that the .45-70 bullet dropped more than 150 feet in 900 yards, formed a prejudice that prevented sufficient study of the claim to analyze it clearly. Instead, the truth became apparent only when enough of the bits of wisdom had been garnered to force the mind to recognize it. The stag was standing on the edge of a scarp of rocks, up the side of a steep canyon wall, looking down at the men making camp. He was a clear target silhouetted against the sky. Clear air at 7,000 feet altitude further aided vision. With the rifle rested over a bed roll on top of a rock and the shooter sitting on the ground, a steady aim was secured. The elevator on the rear open sight on a Model 1886 WCF is sufficient to put the 500 grain bullet in the target at 900 yards with a six o'clock hold when firing at an elevated angle of sixty degrees at that altitude. The 500 grain slug had about 750 f.s. still left at 900 yards, enough to penetrate a big buck from end to end. It took many years to realize that the sixty-degree angle and 7,000 ft. altitude was in the equation. It may be well to remember that the claims made by many of the old timers concerning long distance kills were made when shooting at game high above them in the mountains.

Too few of us realize that bullets traveling at velocities under 1,000 f.s. travel as much as several times as far for each 100 f.s. loss of velocity, compared to the same bullets when traveling above 2,000 f.s. In order to obtain a remaining velocity of 2,700 f.s. at 100 yards, the .30 caliber 180 grain boattail bullet must be fired from the muzzle at 3,000 f.s., which velocity loss would bring the bullet to a halt in 1,000 yards if continued. (*To be continued.*)

CHART 2

CARTRIDGE	BULLET wgt. in grs.	BULLET type	VELOCITY in f.p.s. muzzle	VELOCITY in f.p.s. 150 yds.	PATH OF BULLET midway of "0" range in.	PATH OF BULLET in.	PATH OF BULLET 75 yds. in.	PATH OF BULLET 112½ yds. in.	PATH OF BULLET 150 yds. in.	WIND DRIFT 37½ yds. in.	WIND DRIFT 75 yds. in.	WIND DRIFT 112½ yds. in.	WIND DRIFT 150 yds. in.	TISSUE TYPE	ANIMAL WEIGHTS head K= 100,000 37½	ANIMAL WEIGHTS chest K= 200,000 75	ANIMAL WEIGHTS chest 112½	ANIMAL WEIGHTS belly K= 400,000 150	VALUE of "C"	TIME OF BULLET FLIGHT	LOADED BY
.22 Short Hi-Vel Rifle	27	LHP	1155	851	+1.71		0	-7.20		.46	1.85	4.16		MR	7½	3½			.094	.462	ALL
.22 Long Hi-Vel Rifle	27	LHP	1395	920	+1.16		0	-6.42		.58	2.30	5.16		MR	8½	4			.092	.414	ALL
.22 Long Rifle Hi-Vel Rifle	37	LHP	1400	984	+1.06		0	-5.38		.49	1.95	4.40		LR	17	7½			.122	.399	ALL
.22 Special Hi-Vel Rifle	40	LHP	1475	999	+ .92		0	-5.18		.48	1.90	4.28		LR	21	9			.115	.380	ALL
.22 Rim-Fire Automatic Rifle	45	LHP	1055	879	+1.93		0	-7.76		.27	1.07	2.42		MR	20	9½			.146	.470	ALL
.25 Rim-Fire Stevens Long	65	L	1130	935	+1.59		0	-7.40		.29	1.15	2.60		HR	45				.163	.444	ALL
.25-20 Single Shot Rifle	86	SP	1380	1074		+3.02		0	-5.58	.32		2.87	5.10	MR	95		41		.193	.377	WRP
.32 Long Rim-Fire Rifle	90	L	945	810	+2.48		0	-4.92		.22	.88	1.97		HR	73				.150	.511	ALL
.32 Winc. Self Loading Rifle	165	SP	1390	1119		+2.89		0	-4.36	.24		2.20	3.90	MR	355		159		.235	.362	ALL
.35 Winc. Self Loading Rifle	180	SP	1390	1096		+2.93		0	-4.52	.27		2.42	4.30	MR	420		186		.208	.367	ALL
.38-56 Winchester Rifle	255	SP	1400	1139		+2.75		0	-4.88	.25		2.25	4.00	MR	660		325		.254	.361	WRP
.40-65 Winchester Rifle	260	SP	1360	1103		+3.00		0	-4.90	.25		2.25	4.00	MR	865		388		.236	.371	WRP
.40-72 Winchester Rifle	330	SP	1380	1170		+2.76		0	-4.14	.18		1.63	2.90	MR	1438		662		.325	.355	R
.40-82 Winchester Rifle	260	SP	1495	1148		+2.48		0	-4.62	.28		2.53	4.50	MR	940		410		.206	.346	WRP
.410 Gauge Rifle Slug	93	L	1470				0							MR	114	51					W
.45-60 Winchester Rifle	300	L	1390	1096		+2.94		0	-4.46	.28		2.53	4.50	MR	1165		513		.208	.368	WRP
.45-70 Government Rifle	405	SP	1310	1104		+3.17		0	-5.16	.22		1.97	3.50	MR	2050		940		.282	.378	ALL
.45-75 Winchester Rifle	350	L	1390	1096		+2.94		0	-4.46	.28		2.53	4.50	MR	1590		705		.208	.368	W
.45-125 Sharps Buffalo Rifle	550	LHP	1350	1143		+2.87		0	-5.08	.19		1.74	3.10	MR	3900		1790	795	.310	.364	H
20 Gauge Rifle Slug	275	L	1410				0							MR	960	425					ALL
16 Gauge Rifle Slug	385	L	1435				0							MR	1910	855					ALL
12 Gauge Rifle Slug	415	L	1470				0							MR	2280	1010					ALL
.22 Long Rifle Bull Gun	40	LM	1180	935	+1.53		0	-6.62		.33	1.32	2.98	5.30	MR	17½	8			.140	.435	ALL
BOWS and ARROWS																					
.30 Caliber Light Hunting Ar.	330	metal tip.	250	60lb. pull bow										MR	245	110					
.35 Cal. Med. Hunting Arrow	440	broad head	275	75lb. pull bow										MR	480	210					
.40 Cal. Large Hunting Arrow	660	broad head	300	90lb. pull bow										MR	1175	520					
.45 Cal. Ex. Large Hunt. Ar.	880	broad head	325	105lb. pull bow										MR	2270	1000					
.50 Cal. Heaviest Hunt. Ar.	1100	broad head	350	120lb. pull bow										MR	3800	1700					

"MOTH BALLS AND GUNS"

By HAROLD L. WALKER *

THERE HAS RECENTLY appeared, in at least two of the sporting magazines, a question regarding the corrosive effect of moth preventatives upon guns when the two are stored together. These questions were asked by young men entering the Armed Forces who were apparently concerned about the preservation of guns during their absence. The published answers to these queries were vague and expressions of opinion only, but did state that no corrosion should take place. I questioned one of the men in the sporting goods department of one of Chicago's large stores and he stated that guns stored with moth preventatives and brought to them were in a bad state of corrosion from rusting.

Two opposed opinions were expressed, neither of them substantiated. I have since conducted a controlled experiment upon the corrosion of steel with two commonly used moth preventatives, and this is a report for those who are interested.

The most used chemical for preventing destruction of woolens by moths is naphthalene ($C_{10}H_8$), commonly called moth balls. Another chemical used, and one which is probably more effective, is paradichlorbenzene ($C_6H_4Cl_2$). These aromatic compounds are very tightly bound together and do not decompose easily. There are no elements (carbon and hydrogen) in naphthalene which would suggest corrosion of steel; however, the paradichlorbenzene contains two atoms of chlorine per molecule. Chlorine, if free or in certain other compounds, readily attacks steel with a destructive action.

A plain carbon steel similar to steel used in barrels and other gun parts was used. The steel specimens were hot rolled in 0.50 inch rounds and approximately 0.50 inch long. The steel specimens were rough polished on one transverse face in accordance with methods used by metallographers in preparing metals for microscopic examination. After polishing the steel specimens they were washed several times in ethyl alcohol and dried in a stream of warm air to make certain they were free of water. The steel was not oiled. The steel specimens were placed in one inch test tubes and exposed to the two chemicals. Each of the test tubes was closed with a cork stopper. The stoppers were removed occasionally and breath was blown into the tubes so that some moisture would be present. The temperature varied from 70° to 80° F. and the steel was exposed forty-five days.

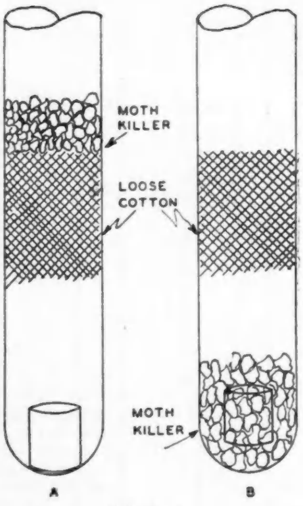
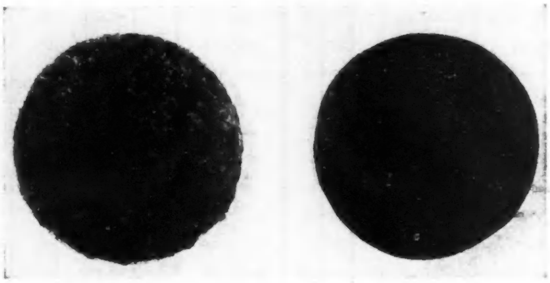


FIGURE I

Fig. 1 shows the methods by which the steel specimens were exposed to the chemicals. In 1A the steel was separated from the chemical by a loose wad of cotton and was exposed to the chemical gas only. In 1B the steel was in direct contact with and covered by the chemical. There were six samples of steel as follows:

No. 1. Steel in contact with paradichlorbenzene, Fig. 1B.
No. 2. Steel in contact with naphthalene, Fig. 1B.
No. 3. Steel not in contact with paradichlorbenzene, Fig. 1A.
No. 4. Steel not in contact with naphthalene, Fig. 1A.
No. 5. Steel in contact with paradichlorbenzene, Fig. 1B. In addition a small swab of water-saturated cotton was fastened to the cork stopper and the atmosphere inside the test tube was saturated with moisture. Moisture was condensed on the tube walls for the entire period.
No. 6. Control sample of steel. No chemicals were placed in the test tube.

The appearance of specimens one and five are shown in Fig. 2 after forty-five days' exposure. There is no visual or microscopic evidence of corrosion or etching reactions on the polished surfaces with the exception of specimen No. 5 which shows a heavy coating of iron oxide rust. The rust areas on specimen No. 5 are in the form of a rather tightly adhering scale. Not only the polished surface, but the entire surface of No. 5 specimen was rusted.



Specimen 5 **Other specimens**

FIGURE 2

On the basis of this experiment it is considered safe to store guns with these two moth preventative chemicals under all normal conditions of storage, such as in trunks, clothes closets, or in gun cases. There is no evidence of corrosion from reactions between the steel and the chemicals, either by direct contact or from gases. The conditions of No. 5 specimen are entirely abnormal and the amount of moisture present in the test tube would undoubtedly have caused rusting even in the absence of the moth preventative chemicals. A surface coating of oil or grease would have prevented some of the rusting of specimen No. 5. In fact, it is my opinion that specimen No. 5 would have rusted more if the chemical had not been present.

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* Professor of Metallurgical Engineering, University of Illinois.

Simplified Small Arms Ballistics

FOR THE SPORTSMAN AND SOLDIER

By the OLD COACH

Since its inception, the Old Coach's Corner has been given over to a review of shooting subjects for old and new shooters alike. One of the most important subjects is that of ballistics, an understanding of which, we must admit, is too often taken for granted. To provide the necessary background and to establish basic principles and fundamentals, the Old Coach undertakes this series; presented in simple terms, yet invaluable in review for all Rifleman *readers.*

III. WHAT'S IN A NAME?

(Continued from August issue)

Our new semi-automatic service rifle is designated as "the U. S. Rifle, caliber .30 M1." It is universally referred to as "the Garand" because John Garand designed it. Our present service cartridge for the "Garand," "Springfield" and "Enfield" is the "Cartridge, ball, caliber .30 M2." The "Cartridge, ball, caliber .30 M1" carried a longer range, harder hitting bullet, so that a higher "M" number merely indicates a change in design; it does not necessarily imply an improvement in range or accuracy.

The .30/30, ".30 Army" and ".45 Army." No cartridge has ever attained and retained such world-wide popularity as the .30/30 Winchester. Two factors have been responsible. First: the rifle (and carbine) were the first sturdy, dependable, compact repeating arms for a powerful smokeless load. Second: the cartridge was developed just as the transition from black powder to smokeless was attracting sportsmen and the compact, high velocity (compared to the older black powder cartridges) cartridge was the answer to a shooter's prayer.

Because of its enormous popularity and publicity the average citizen dubbed *every* caliber .30 smokeless cartridge a ".30/30." Even in *this* war newspaper writers (and thousands of our soldiers!) are calling the U. S. Army cartridge "the .30/30." *The .30/30 is not and never has been the standard service cartridge of The United States Army, Navy, or Marine Corps.* It is a much less powerful cartridge than our Service rifle cartridge. (It is, however, considerably more powerful than the new "M1 Carbine" cartridge). The .30/30 is a *rimmed* cartridge designed for use in lever-action rifles having a tubular magazine. Our Service cartridges are of the *rimless* type designed for use in clips or "chargers" in box magazine bolt action arms and in automatic and semi-automatic machine guns and rifles.

When our Army adopted the caliber .30 "Krag" rifle and carbine in the '90's this cartridge soon became known as "the .30 Army" in order to differentiate it from the ever-present .30/30. The ".30 Army" was, by the old black-powder standards of measurement, a ".30/40." It carried both a larger powder charge and a heavier bullet than the .30/30. The term ".30 Army" became so generally used that thousands of shooters and many ammunition price lists continued to call this cartridge the ".30 Army" long after the Army had changed over to the Springfield and the present caliber .30 Model 1906 cartridge. In fact the .30/06 cartridge has always been called just ".30/06," ".30 Government" and ".30 U. S. Government" never ".30 Army."

So, the U. S. Army cartridge of today is *neither* the ".30/30" nor the ".30 Army"!

In revolver and pistol cartridges a similar situation sometimes arises to confuse the tyro. The ".45 Army" is the version of the old .45 single action "Peacemaker" cartridge which was adopted by the Army and used in single action and double action revolvers for a decade before and after the turn of the century. It is a rimmed case with a lead bullet. It was designed for a heavy charge of black powder and was a dependable, hard-hitting cartridge when so loaded. A *safe* charge of smokeless powder did not nearly fill the big cartridge case so that irregular ignition, poor combustion, and unsatisfactory accuracy have always plagued smokeless loadings of the ".45 Army."

The present Army pistol is the .45 Automatic Colt Pistol, Model 1911 (".45 ACP"). The cartridge is rimless and is short so as to provide proper ignition and burning for modern smokeless powder. The bullet is gilding-metal jacketed. Double action revolvers designed for the Model 1911 cartridge and designated "Model 1917" revolvers were issued to Army, Navy, and Marine Corps during World War I and again during this war. The "Model 1917" revolvers will *not* handle the old ".45 Army" cartridge. Any reference to the ".45 Army" cartridge should be carefully checked to see whether the old .45 rimmed, lead bullet cartridge or the present .45 rimless, metal-jacketed ACP cartridge is meant. The Model 1917 revolvers *will* handle the rimmed lead bullet and the jacketed bullet .45 Auto rim cartridges made only for these 1917 revolvers.

"Ball" Cartridges, "Dum Dums" etc.: As used in military parlance a "ball" cartridge means a cartridge loaded with a regular metal-jacketed *pointed* bullet at full service velocity. Cartridges loaded with one or two round balls issued for riot and guard duty are *not* called "ball cartridges" but are designated "guard cartridges."

"Dum-dum" is an out-moded and generally misused term. It originally applied to lead bullets and to the early low velocity metal-jacketed bullets when file cuts were made across the nose to cause quick expansion. Such weakening of the bullet jacket might be disastrous (to the shooter) in certain modern high intensity cartridges. There are many different types of scientifically designed expanding point bullets for hunting purposes. All are far superior to the original crude "dum dums." None of today's *expanding point* bullets are properly called "dum dum" by the initiated.

"Steel jacketed" bullets are often referred to by newspaper men and writers of fiction. A few steel bullets have been produced in laboratories for especially controlled experiments but they are entirely too hard on rifle barrels

to be practical for ordinary use. The bullets which had a steely appearance and fooled the fiction writers were actually jacketed with cupro-nickel. Because of lumpy metal fouling deposited in the bore of the rifle by these jackets they were abandoned some years ago in favor of jackets made of gilding metal (90% copper, 10% zinc). Because of the war-time need to conserve copper, bullets are now being made from a "metallic sandwich" consisting of gilding metal "bread" and sheet steel "ham." Only to this extent may it be properly said that small arms bullets are "steel jacketed."

"Magnum" and "Express." These are terms meaning "more powerful than the average," "high velocity," "smashing power," etc. In other words, they are meaningless as far as actual velocities, pressures, or killing power are concerned. The "Magnums" and "Express" cartridges of 1903 are weaklings and "slow freight" in 1943. A cartridge which is truly a "magnum" in its own caliber may nevertheless have less velocity, killing power, and accuracy than some "standard" cartridge in another caliber.

When a ".38" is a ".357." One of the outstanding examples of "What's in a name" is the enormously popular ".38 Special" revolver cartridge. Actually the (bore or) caliber of this cartridge is .350! Did some designer, toolmaker, or advertising copy writer make a mistake in years gone by? No. The answer is really simple. The ".38" was one of our earliest popular revolver calibers. The original ammunition was manufactured with a two-diameter bullet. The forward portion of the bullet measured .38″. The rear portion of the bullet was of smaller diameter to fit friction tight inside the mouth of the cartridges case which had an *outside* diameter of .38″. This design of cartridge was entirely satisfactory in single shot arms or in the tubular magazine repeating arms. The shoulder on the bullet at the mouth of the case prevented the bullet from being pushed back into the case with possible increase in pressure from crushed powder grains and decreased air space.

However when used in *revolvers* these cartridges caused trouble. As the gun recoiled the bullets slid forward in the mouth of the case. After two or three shots the remaining bullets would project far enough forward to prevent proper turning of the cylinder.

So the forward portion of the bullet was made smaller and a ring provided into which the mouth of the shell could be crimped to prevent the bullet moving either in or out of the case. The idea worked beautifully but the cartridge case was still .38″ *outside* diameter and the redesigned bullet was now only .357″ to .360″.

The new cartridges could be used in the revolvers which were already in use because the lead bullets expanded enough to give as good results as anyone expected from a revolver in those days. The new revolvers were made with .357″ groove diameter [*] to properly handle the re-designed cartridge. But the revolvers continued to be catalogued as ".38's" and few owners of this popular handgun realize that they actually own a ".357." The S. & W. .357 Magnum is properly named for this *groove* diameter.

Caution ℞ for Long Life: The purpose of this chapter has been to accent the fact that nothing can safely be taken for granted in the handling of guns and ammunition. The more experienced the ballistician and shooter, the more carefully he proceeds when he takes up some new or unfamiliar gun, cartridge, or explosive. If you don't *know*, find out before you shoot some strange cartridge or experiment with some new load. Even the caliber stamped on the head of the cartridge or the name on the box may be misleading unless you know the long, involved history of gun and ammunition design in America and abroad.

IV. POWDER AND PRIMER

It is helpful to the automobile-minded American's understanding of ballistics to remember that a gun is a form of internal combustion engine. The gun's chamber and bore correspond to the cylinder walls of the engine. The breech-block, sealing the end of the chamber, serves the same function as the cylinder head of the engine. The cartridge case, expanding against the chamber walls and the face of the breech-block, prevents the waste of gas in much the same fashion as do the closely fitting valves and gaskets of the automobile motor. The "fuel" in the gun is smokeless powder. The primer in the head of the cartridge case serves the same function as the spark plug in the gasoline motor. In both cases the ignited fuel burns, generates rapidly expanding gases and forces the piston to move with tremendous energy and speed. In the motor the piston transmits its energy to the connecting rod and remains in the engine. In the gun the "piston" (bullet) uses up a part of its energy to travel to its target and expends its remaining energy in, or against, the target.

Some engineers have said that the gun is the *least* efficient form of internal combustion engine. They refer to the amount of useful energy transmitted to the piston in relation to the amount of fuel used. The statement may be correct but the reason is not hard to find. All internal combustion engines operate under a law of physics which says "heat is energy." Combustion produces heat. Heat induces combustion. Every automobile driver knows that his motor will not deliver dependable, maximum power until the engine is "warmed up." Despite this primary requirement for the efficient operation of any internal combustion engine, we demand that our *firearms* deliver enormous power without any "warming up." Indeed, because we handle our firearms with our bare hands, we do not want the gun to heat up even when it is continuously fired. This is one reason why the gun must always be relatively inefficient in the internal combustion engine field. Another reason is the factor of "compression." Compression generates heat and thereby directly contributes to the efficient combustion of the fuel. The "compression stroke" in the gasoline engine is one of the most important cycles in the motor's operation, but the gun must develop its own compression through the burning of its fuel and without the aid of any compression stroke from its "piston," the bullet, sitting quietly in the mouth of the cartridge case.

Still another factor contributing to poor compression in the gun is the lack of "piston rings" on the bullet. The bullet must expand and form its own gas seal in the rifled bore after the powder has started to burn. The nicely fitted, expanding piston rings and smooth round cylinder walls which help the auto piston to develop maximum energy from the fuel consumed are definitely not present in the gun. The powder in the gun must develop its own compression after it has been ignited—and it must do so from a "standing start" in a cold cylinder!

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[*] The bore is .350″ and the caliber by bore would also be .35. The S & W .357 Magnum and the .257 Roberts cartridges are indicated by their *groove* calibers.

Obviously the primer—the "spark plug" which starts the whole procedure by "lighting the fire"—is a far more important component having a far greater influence on the ballistics of a firearm than the average shooter realizes.

A good small arms primer must possess the following characteristics:

1. It must fire unfailingly when struck a reasonable blow by the firing pin, but it must not be so easily exploded that it will fire as a result of the shocks and pressure which may be expected in normal loading, handling, and shipping.

2. It must deliver a uniform flash with intense heat into the powder charge, but it must not explode with such violence as to rupture the soft brass primer cup or start the bullet out of the mouth of the case. (A ruptured primer cup means burning gases slashing rearward into the shooter's eyes. Ordinarily, a bullet prematurely started from the case means that all chance of the powder building up compression is lost and a "squib load" will result.)

3. It must deliver the right amount of heat to ignite the particular powder with which it is loaded. (To start a fire using hard coal you must use more and hotter kindling than to start a fire of soft resinous wood.)

4. It must be "chemically stable" so as to retain all the above characteristics over a long period of time and in all sorts of climates from tropic heat to arctic cold and from mountain dryness to sea level dampness.

When next you view that little primer in the head of a cartridge case, look at it with respect and admiration.

Small arms primers are made with that type of explosive known to ballisticians as high explosive. There are several branches of the high explosive family which we will not discuss at this time. The branches in which we are interested in connection with primer manufacture are designated "igniters" or "initiators." High explosive compounds of the igniter family are chemical products in which the various elements have an inherent dislike for one another. The molecules forming the chemical structure will depart, one from another, on the slightest provocation and with the utmost heat. Furthermore they leave with the greatest possible speed, at velocities quite inconceivable to ordinary mortals.

The ballistician says that high explosives of this type have a very fast "explosive wave" or, to be still more technical, "high brisance." The family ties holding together the molecules in a good igniter's family are so weak that the frictional heat developed under the blow of a well-proportioned firing-pin will completely disrupt relations. The heat from the resultant explosion is projected through the primer vent into the powder charge in the form of a stabbing flame which "kindles the fire" and starts the powder burning. This is a true "explosion" though a small one. Powder *burns* but primers *explode.* Always remember that the primer is loaded with a high explosive and must be treated accordingly.

No phase of ammunition manufacture has received more attention during the past few years than the improvement of priming compounds. Many compounds have been tested in ballistic laboratories and in the field. Shooters have heard the old arguments about "fulminate" and "non-fulminate" primers and about "ground glass primers" and "no glass primers." They have heard discussions about "chlorate primers" and about "non-corrosive primers." Most of these discussions have to do with the effect of the primer on erosion and corrosion inside the gun rather than dealing with the effect of the primer on the ballistics of the gun. For this reason we will not go into the matter of primer compounds until we discuss erosion and corrosion in a later chapter. At the moment it is sufficient to know that ballistically the primer is a true high explosive and that its function is unfailingly to ignite the powder charge.

Now to the matter of powder, the "fuel" of our engine.

Gunpowders, both black and smokeless, are members of that family of explosives known as "progressive" explosives or, more commonly, "propellants." Instead of disrupting with violent force like high explosives, the propellant explosives burn at a rate of speed controllable within reasonably close limits by the powder manufacture. The combustion of powder grains progresses evenly from the surface where ignition occurs through subsequent layers of the explosive as the temperature of each layer reaches the ignition temperature. Thus, *propellant explosives burn only on their exposed surfaces.* It is this fact, plus the additional control of burning speed which can be built into the powder by the use of various ingredients, that has made modern high-velocity weapons possible.

The story of the development of gunpowder from the days of "wild fire" and "Greek fire" down through the years to the carefully controlled chemical compound which we know as "smokeless powder" is vastly interesting. It is not, however, a story which can be covered in a brief study of practical ballistics. So we will only talk about the ballistic requirements and characteristics of modern smokeless powders. We will not go into details of manufacture or composition because of lack of space, and because improvements are being constantly made both in methods and in mixtures. So, to avoid being out of date before the ink is dry we will stick to basic principles.

(*To be Continued.*)

Magazine Paper Curtailment

THIS YEAR, all magazines were required to make a ten per cent reduction in paper tonnage, either by reducing the number of magazines printed, or the number of pages per magazine, or by cutting the size of pages.

Unfortunately, there was only one choice for THE RIFLEMAN. Only a few thousand copies were saved by eliminating counter sales. Our membership-subscription continued on a steady upward trend. It seemed impractical to reduce the number of pages when there was such a need at this time for the type of information which could be distributed only through THE RIFLEMAN. Reducing the page size involves many problems, in advertising particularly, with small tonnage saved. We have, therefore, accepted with reluctance the only remaining alternative: take a cut in the actual weight of paper. We sacrifice much in appearance and opacity, but it will have to be so for the present and we know our readers will understand.—ED.

BRIDGEPORT, CONN., SEPT. 1943

Rifle

Possibles and Impossibles

by **FRANK J. KAHRS**

The State of Pennsylvania is noted for many things in the shooting line, particularly the number of hunters who take out licenses annually to hunt in the game areas of that state.

There are also many fine rifle shots in Pennsylvania, and I rather think that there must be more rifle clubs in Pennsylvania than in any other state. Certainly there are plenty of individual riflemen.

It has come to my attention that in Pennsylvania there is an old-timer who is doing some very remarkable off-hand shooting in competition right now, and I can tell you that this remarkable man of 70 winters and an equal number of summers is doing his bit for the war effort with a fervor to put many a younger man to shame.

He organized a Basic Training Rifle School where the fourth class is now in training and also organized the rifle section range division of a prominent Police Range Rifle Club. By profession an architect, he laid out the splendid range for his home rifle club where the Pennsylvania State Championship match was the first competition.

They tell me he uses a Scheutzen rifle with a 30-inch, No. 3 heavy barrel and a 5-power scope. The rifle is of ancient vintage, and he supports it with the thumb and forefinger, elbow on hip. He has been seen to fire 70 consecutive shots in that position at 50 feet on the N. R. A. standard target, with a difference between his high score and low score of only 4 points—with an average of 87, which means good off-hand shooting. But at 100 yards outdoors, he is in a class by himself, at least up in that neck of the woods. His friends have hung targets and scored for him at 100 yards when his average was close to 90. He never fires more than 10 shots on a target with no sighters. As a matter of fact, in the presence of witnesses, he fired a score of 94, all inside the 9 ring, and on the same day a 90 with two 8's in the score. Just a few weeks ago he fired 10 shots with a score of 93, with one 8-ring, also a score of 88, and later a 10-shot score with a low 7 totaling 94. There were 7 tens in this score and two of them in the X-ring.

* * *

When he is not shooting, he is working in one of the large defense plants, running a 37-mm. barrel reaming machine on the night shift. I am very glad of the opportunity to say something about this remarkable man and hope these few facts will prove interesting to my readers, as I am sure they will. Oh yes, I almost forgot to say that our friend used regular "Kleanbore" in all of his shooting.

* * *

We still have quite a few requests for brassards coming in from shooters around the country who keep pecking away at the target.

The other day one of our good friends from New Mexico sent in a 10X target made at 100 yards, of course, requesting a brassard. He stated that he was using a Remington 37 "Rangemaster" rifle, and that the ammunition was regular "Kleanbore".

* * *

He went on to say that the ammunition was a box of shells that was issued over two years ago by the D. C. M. One of the club members, unable to do any shooting, had passed the ammunition on to him and he tried it out in the 37 with the amazing result of a 10X. Well, you can't say we didn't tell you so!

"Rangemaster" and "Kleanbore" are Reg. U. S. Pat. Off. by Remington.

HAVE YOU GOT OF THESE BRASSARDS ?

We still have a good supply of "10X" and "400" ds on hand to award to shooters who qualify for them. rate one yourself, why not send for it—and join some select company?

There are two types of Remington brassards awa "A" for scoring in competition, and Type "B" for scori ctice. (With a Remington rifle, or Remington ammuniti rse.) Here are the qualifications. . .

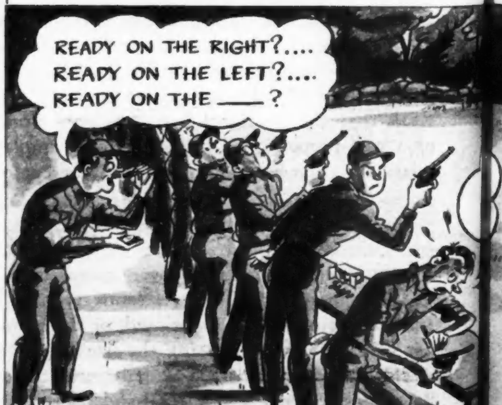
Type "A". For the "10X" award, score ten shots -ring of a standard 100-yard target in competition. For th ward, score a possible 400 x 400 over the Dewar course— ts at 50 yards and twenty shots at 100 yards.

Type "B". For the "10X" and "400" awards, ve—except that the scores may be made in practice.

In all cases, we'd be interested in seeing your t perly certified. (We're always interested in seeing the fine shooting.) However, if the targets aren't availab e us the date, place, name of club, and any other interesti tion you'd like to supply—and we'll take your word f

If you've qualified for one of these handsome, gold, nationally recognized awards for fine shooting— yet sent for it—why not do so right now? Write *tion Section, Remington Arms Co., Inc., Bridgeport 2,*

THERE'S ONE IN EVERY CLUB . . . .


READY ON THE RIGHT?....
READY ON THE LEFT?....
READY ON THE ___ ?
B.T.

emington News

A PAPER FOR PEOPLE WHO SHOOT

"Wonder where I'll be this hunting season . . ."

My last night in the old room. . . Wonder if Army cots are comfortable. . .

Sorry Dad and I won't get our week of hunting this fall. Good way to get to know Dads: go hunting with 'em. . . Marge. Every wolf in this burg will come howling around, darn it. . .

Wonder where I'll be hunting this season. Bet it's some place I'll be glad I'm not such a lousy shot. . . Will Marge really write me every day? . . . That "emergency" box of shells—mustn't forget to give 'em to Dad. . .

Mom—claiming she had something in her eye when she kissed me good-night. And not fooling anybody. . . Lump in my throat was as big as a grapefruit. . .

What a swell bunch of people to come home to!

* * *

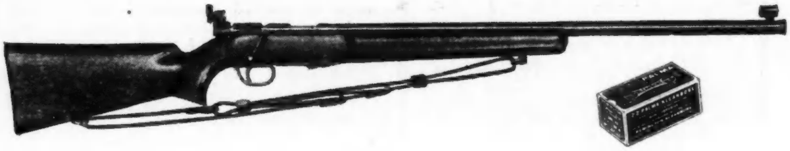
Since war has called so many millions of Americans away from their homes and homeland, Remington is thankful that it is able to help send them well armed:

1. ***Every working day,*** *Remington produces thirty million rounds of military small arms ammunition.*
2. ***Every working day,*** *Remington produces more than enough military rifles to equip an entire infantry regiment at full fighting strength.*

When fathers and sons can once more go hunting in a peaceful world—we will again be serving them with Remington shotguns and rifles, Nitro Express shells, Kleanbore Hi-Speed .22's and Core-Lokt big game bullets.

Remington Arms Company, Inc.,
Bridgeport, Conn.

"Nitro Express", "Kleanbore", and Hi-Speed" are Reg. U. S. Pat. Off.; "Core-Lokt" is a trade mark of Remington Arms Co., Inc.



Remington

DUPONT

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

GARAND PRONOUNCES IT

Editor:

As requested, I enclose copy of letter from the G. & C. Merriam Co., (publishers, Merriam-Webster dictionary) explaining my own preference as to the pronunciation of my name.—*John C. Garand, Springfield, Mass.*

> ". . . initial *G* hard (as in *go*); first *a* short (as in *Harry*); second *a* somewhat more obscure (as in *errand*); accent on first syllable. Or, according to the Merriam-Webster system of marking: găr'ănd."

At the risk of going into extra innings on the subject, this should be the last word. Previously, failing to reach Mr. Garand himself, we published the gar as in garrison, accent on second syllable *pronunciation that was (and, we fear, still is) in common use in the Services. But Mr. Garand ought to know, if anyone does!*—Ed.

WHO GETS YOUR GUNS?

Editor:

If NRA members facing retirement would put up their favorite target and field weapons as prizes to be shot for through their local clubs—or if they would write into their wills some such provision for the disposal of their guns—they would be doing a fine service to the cause of improving marksmanship and carrying on the sport to which they themselves were devoted.

The young men coming back from the war will make up the bulk of our future civilian marksmen. Giving these men fine guns to shoot for would be an incentive to the game and should give the donors themselves a worth-while reward of personal satisfaction in the knowledge that their equipment would fall into good hands.

In most cases, too, the wives and families of these donors would be glad to know that their loved one's guns were going to appreciative owners who would carry on his own interest in the sport.—*James Battle Rivers, Evansville, Indiana.*

FOR FREE TRADE

Editor:

I notice in "Powder Smoke" letters complaining about the "outrageous" prices asked in some of the ads in "The Arms Chest." I wonder, considering existing conditions, if this isn't a bit unfair.

Consider the farmer who, a few years ago, got six cents for a pound of beef or pork on the hoof. Today, he gets about fifteen cents. Suppose, some years ago, he paid for a box of .22 LR cartridges with meat at prices then current. Today, he wants to sell the cartridges to buy meat. The meat will cost him more than he can get for the cartridges, even though the price he asks prompt some of us to call him "a robber"!

Consider, too, the laborer who, a few years ago, got thirty-five cents an hour and now gets a dollar an hour for the same work. Suppose he paid one hour's wage for a box of those same cartridges. Must he sell them now for one-third of an hour's wage, or should he get back the hour he paid? . . . Or maybe he paid $41.50 for a .45 Automatic when the dollar was worth one hundred cents. Must he sell it for $41.50 now, when those dollars are worth only sixty cents?

We are living in peculiar times! Let's be fair and charitable!—*E. A. Bastel, Prairie du Chien, Wis.*

CHAIN MEMBERSHIPS?

Editor:

I submit a plan which might be of interest to other NRA members.

I am investing three dollars for an NRA membership for a young friend, exacting in return this promise: that instead of repaying the money to me, he is to enroll some other youngster and exact a similar promise from *him*—and so on, thus building an endless and constantly growing chain of new members.

Yours for a bigger and better NRA.—*Ernest C. Dreher, Major, AGO, N. Y. C.*

NRA MEMBERS' MEETING

The 72nd Annual Meeting of Members of the National Rifle Association for the election of Directors and for the transaction of such other business as may be properly presented will be held at the Hotel Mayflower, Washington, D. C., Friday, September 17th, 1942 at 8:00 p.m. All members of the N.R.A. have the privilege of the floor; Life and Endowment members are eligible to vote.

The twenty life members named below, selected by the Nominating Committee, will be nominated and voted on as Directors of the Association for the three-year term ending in September, 1946. Additional nominations may, of course, be made from the floor.

For Re-Election:

Major General M. A. Reckord USA (Md.)
Mr. J. W. Woolrey (Colo.)
Mr. E. N. Littleton (Ohio)
Major General W. S. Price (N. J.)
Mr. Russell Wiles, Sr. (Ill.)
The Honorable Joe Starnes (Ala.)
Mr. Mark Cooper (Georgia)
Mr. Walter Day (Wash.)
Captain J. F. Holmes USA (Ind.)
Lt. Marvin Driver (Mich.)
Mr. T. J. Imler (Arizona)
Mr. Harvey O. Scofield (Wash.)
Mr. Carl Kastner (N. J.)
Lt. Col. E. V. Wooten (Oregon)
Mr. Harlow Pease (Montana)

New:

Mr. Frank T. Parsons, Jr. (D. C.)
Mr. Byron Engle (Mo.)
Mr. E. F. Mitchell (Mass.)
Mr. T. O. Brennerman (N. Mex.)
Mr. J. W. Aitken (N. Dak.)

CHALLENGE

Editor:

Will you please print in your September issue this challenge for postal rifle matches: Ten shots prone and ten shots standing, on official NRA 50 ft. targets. Any clubs in the New England States interested in such a match are requested to write me.—*Bowers Fuller, Lowell Marksmen's Club, R.F.D. 2, Lowell, Mass.*

THAT SULLIVAN LAW AGAIN

From E. E. Merkel, Long Island City, comes a clip from a New York paper telling again the familiar story of anti-gun legislation. One Joseph Mendez, 46, Bronx grocer, asked for police protection against a burglar who had already made three successful raids on the Mendez store. Failing to get a watchman due to police man-power shortage, Mendez rigged a master light-switch in his establishment and, gun in hand, waited.

You know the rest. The burglar came; Mendez jerked his switch, fired a shot in the air, captured his burglar—and landed in jail.

(P. S. The burglar was also arrested.)

NO MORE ARMY COMMISSIONS

No more civilians are being commissioned in the Army for duty as small arms instructors. The Officer Candidate Schools are now turning out all the officers the Army needs, except in the case of a few highly trained technical specialists such as radio engineers.

Almost without exception, the small arms instruction program has been broadened and lengthened at these Officer Candidate Schools. In the Infantry School at Fort Benning, almost double the time is devoted to small arms instruction than is devoted to any other subject except tactical maneuvers. As every rifleman knows, it is not difficult to train a man to become a good shot *mechanically* with a few hours of instruction. However, only continued firing under proper coaching will develop a marksman who *automatically* does the right thing at the right time. The most common remark heard among the officers in charge of small arms instruction at Fort Benning is: "We can teach these men how to instruct others in the mechanics of shooting, but it is a great pity that the students do not have more of a *background* of shooting experience." The NRA pre-induction training program is a partial answer to the problem of giving the recruit more of a background of shooting experience.

Civilians who feel that their shooting experience qualifies them for instructors' commissions in the Army are wasting their talents if they are not conducting pre-induction small arms training schools for the boys in their neighborhood.

So far as is known, neither the Navy, Coast Guard, nor Marine Corps is issuing commissions for duty as instructors in small arms marksmanship.

ARMORED SCHOOL MATCH

Technical Sergeant H. L. "Joe" Benner, second ranking pistol shot in the nation, scored a grand slam in the Armored School Gunnery Department's pistol matches July 11th in the department's big indoor range at Fort Knox.

Sergeant Benner, a gunnery instructor in the school, won each of the six individual matches and was a member of the winning four-man and two-man teams. In each of the team matches he shot a perfect 300.

His partner in the two-man team event for the Banks Trophy was Raymond Wright, of New Albany, Ind., who scored 287 for a team score of 587. Joe Anderson, of Louisville, and T. Gabel, of Bellevue, Ky., were second with 579.

Southern Indiana Rifle and Pistol Club's four-man team defeated the Louisville Rifle and Revolver Club team for the Friedman Trophy. The Southern Indiana marksmen turned in the creditable score of 1166 out of a possible 1200. Their opponents scored 1137. Each man fired thirty shots; ten each at slow, timed and rapid fire.

Twenty shooters competed. All matches were fired from the 25-yard line. Lt. W. C. Mills, of the Gunnery Department, was in charge of the matches, with W. C. Watters, of Louisville, as Range Officer.

BROOMALL MATCH

Seventy-nine shooters competed in a six-match registered pistol tournament at the Broomall Sportsmen's Club range, Broomall, Pa., on Sunday, July 11th. Sgt. George K. Schockley, of the Delaware State Police, officiated as Chief Range Officer.

50-yard Slow fire—John Jones, Sparrows Point, Md., first, 187; Merton Golden, Reading, Pa., second, 186. Other winners were W. Davidson, Wilmington, Del., Expert, 184; W. Johnston, Wilmington, Del., Sharpshooter, 185; Chas. Shollenberger, Marksman, 175.

Lt. Wm. B. Kirkpatrick lead the field in three matches; Pat Coughlin won two; George Matthews garnered four medals in his Marksman class, and Roy Marshall, Washington, D. C., won three of the Sharpshooter class matches.

ROBERTS ISLAND FREE FOR ALL

A free for all .22 calibre shoot, sponsored by Karl Ross Post, American Legion, Stockton, Cal., was held at the Roberts Island Club, Stockton, on July 4th. Program was twenty shots, offhand, for record, on the 100-yard range. Prizes were donated by the Legion and consisted of War Bonds and Stamps to the first four place-winners.

Top scorers were C. G. Harthold, 186; Capt. Chaudron, 183; H. Williamson, 183; and Lt. Lawrence, 182.

TRI COUNTY LEAGUE MATCH

The Tri County Pistol and Revolver League Registered Match ran at the Lincolnwood, Ill., Club range, July 18th, with plenty of Service shooters battling the civilian and police competitors.

Arthur Moss, Chicagoan, Army Air Corps, garnered one Class and three Place awards, while George Gorham, Miami, now of the Navy, scored one Place and three Class triumphs. Art Kelchauser, Chicago Coast Guardsman, copped the last three events on the program and was high man on the Chicago Rifle Club's four-man N.M.C. centerfire team which outranked Hyde Park Y. M. C. A. of Chicago for the team trophy.

The home club, Lincolnwood, put together a 1099 to win the trophy in the .22 cal. N.M.C. four-man team event, with the Hyde Park team again in the runner-up position.

STOLEN GUNS

Model 54 Winchester .30-'06, serial number 24680A, from Minneapolis sporting goods store two years ago. Notify Olaf Honaas, 2530 Portland Ave. S, Minneapolis, Minn.

Colt Official Police .38 Special, Serial Number 582916, 4" barrel; from Robert W. Humber, 10th St. & Grand Ave., 511-528 Dierks Bldg., Kansas City, Mo. Notify Mr. Humber.

Smith & Wesson M. & P. .38 Special, 2" barrel, blued, Number 625352 on round butt, Number 35667 on crane, black rubber stocks. Stolen January 7th, together with black Clark speed holster. Notify Emil M. Nelson, Box 72 West Landis Ave., Vineland, New Jersey.

COMING EVENTS

Registered Class "C" Tournaments

Oklahoma, September 5th—State Small Bore, Tulsa. Don Young, 1224 South Indian, Tulsa.

West Virginia, September 5th—6th Annual Mountain State Pistol, Fairmont. L. A. Hess, P. O. Box 529, Fairmont.

Pennsylvania, September 12th—Holmesburg Pistol, Philadelphia. H. Russell Cornelius, 4608 Marple Street, Philadelphia.

Pennsylvania, September 5th and 6th—Penna. State Small Bore Championships, Altoona. Robert Barry, 407 2nd Avenue, Altoona, Pa.

Texas, September 12th—Capitol City Championship Small Bore, Austin. Harry L. Kent, Jr., 3407 Exposition Blvd., R. 4, Box 304, Austin.

Delaware, September 19th—Marksman's Club Revolver League, Farnhurst. Harold J. Butler, 19 W. 37th Street, Wilmington.

Illinois, September 19th—Tri-County Pistol and Rev. League, Lincolnwood. Chester Gould, 7441 Madison St., Forest Park.

Michigan, September 26th—Small Bore Tournament, Flint. A. J. Marxhausen, 2521 Thomas Street, Flint.

Delaware, September 19th—Marksman's Club Revolver League, Wilmington. Harold J. Butler, 19 W. 37th Street, Wilmington.

Ohio, September 19th—6th Annual Small Bore, Mt. Healthy. Mrs. Carrie Foster, Station K, Route #9, Cincinnati.

Oklahoma, September 5th—State Small Bore, Tulsa. R. A. McGoon, Enid.

Pennsylvania, September 12th—Holmesburg, Pistol, Philadelphia. H. Russell Cornelius, 4608 Marple Street, Philadelphia.

Nonregistered

South Dakota, September 5th—2nd Annual Small Bore Tournament, Sioux Falls. H. E. Burchfield, Sioux Rifle Club, 630 E. Oak St., Sioux Falls, S. D.

Massachusetts, September 12th—Pistol, Jamaica Plain. C. P. McLaughlin, 2 Peter Parley Rd., Jamaica Plain, Mass.

RIFLE, PISTOL CLASSIFICATIONS

Due to paper shortages, et cetera, there will be no general mailing of classification books this year. Persons wanting copies must write for them.

Rifle classification books and cards will be ready as this issue goes to press. Pistol books will be ready for mailing about the third week in September.

Major General Walter Edwin Lombard

General Lombard was born in Cambridge, Mass., in 1861. He enlisted in Co. "B", 1st Inf. Reg., M.V.M., in 1879 and served through all ranks until, in 1915, he was commissioned Major General, retired, Mass. National Guard.

Distinguished Marksman with the rifle, Expert Pistolman, and Life Member of NRA, General Lombard was keenly interested in the promotion of rifle and revolver marksmanship.

His loss will be keenly felt by the Association and by his many friends throughout the shooting world. He is survived by a daughter, Mrs. George S. Hull, and by a son, Nathan C. Lombard.

S. A. Richards

News of the death of Mr. S. A. Richards, of Houston, Texas, comes to us from Miss Marie B. Robertson: "With thirty-one competitors and a rather large gathering of spectators present, our matches began with 50 yd. stage of the Metallic Dewar course. After just eleven minutes of firing, our oldest member-competitor, Mr. S. A. Richards, died of a heart attack while still in firing position. He had fired eighteen of his twenty shots, with a clean score, including many X's, except for his final shot which was a nine. He ejected that shell and stopped breathing. Only the dropping of his head attracted the attention of the shooters nearest him.

"Mr. Richards had been a shooter practically all of his life. After becoming a member of NRA he changed his position for offhand shooting to the modern one. For many years and up to the very time of his death, he was the top off-hand shooter of Houston, on still targets. Every Sunday found him on the range.

"I can think of no happier way for a real shooter to go than as he did, in the harness and with a swell score on the target."

Mr. Richards' death occurred on Sunday, June 13th. He was in his sixty-eighth year.

John M. Lane

June 23, 1943, after a brief illness.

John Lane, of the W. H. Lane & Son Co. of Portland, Maine, was a graduate in Chemical Engineering of the Massachusetts Institute of Technology. He was a member of the Casco Gun Club and of the Pine Tree Team. In 1936, he was Maine State Pistol Champion.

Lane devoted much of his time and gave freely of his funds in the promotion of pistol shooting in Maine, and it was very largely due to his efforts that the New England Regional Pistol Tournament was held there. His passing is a distinct loss to his many friends of the pistol shooting fraternity throughout the nation.

He was thirty-three years old and is survived by his wife and by a son, William.

ON THE FIRING LINE

WITH THE PRE-INDUCTION TRAINING SCHOOLS

THEY MAKE IT—AND SHOOT IT

"Albert Chamberlain headed the final ratings of a class of twenty-six Des Moines Ordnance Plant employees completing basic rifle instruction under the auspices of he War Department and the NRA through the Des Moines Rifle and Revolver Club.

"Chamberlain shot a 280 score to head the first division. Ten members of the group will soon be inducted into military service and five others are to leave in November."—*Des Moines Register.*

* * *

Another Ordnance plant that is turning out shooters is the Pennsylvania Ordnance Works, Williamport, Pennsylvania. More than a thousand men have gone through the extensive courses in small arms gunnery given there under the able direction of Captain T. G. Townsend since the organization, in April, 1942, of the P.O.W. Guard Patrol. Captain Townsend is well known for his work with the New York Reserve Officers and Mid-town Police teams. He was assisted at P. O. W. by a staff of four NRA- and Army-trained instructors.

Many of the men trained at P.O.W. are now in the Services and not a few are wearing on their sleeves the visible proof of the value of small arms training to the individual inductee.

P.O.W. teams are engaging in regular competition with other plant teams in this war-production area and have their first match yet to lose. They're not shooting the product they make, exactly; but good marksmanship is essential in this war, too, as it has been in wars past.

IOWA SMALL BORE

The Annual Iowa State Rifle Association Smallbore Rifle Tournament was held July 18th at Waterloo, Iowa, with forty-six registered shooters on the line in four forty-shot matches.

Grand Aggregate was won by Ralph Wm. Travis, of Waterloo, with a score of 1594. Individual match winners were: fifty-yard any sight, G. G. Cooper, 400-35x; 100-yard any sight, Vance Blosser, 399-26x; 100-yard iron sight, Ralph Wm. Travis, 397; Masters fifty-yard iron sight, Ralph Wm. Travis, 400-34x.

The Any Sight Dewar was won by T. J. Holm with a possible 400. The Davidson Trophy Match, a restricted aggregate limited to sharpshooters and marksmen, was won by Stephen West with 1586.

Weather conditions were almost ideal and competitors seemed to appreciate being able to fire in a Registered Tournament, few and far between as these are now.

HANDICAP MATCH

B. G. Simms won top honors in the any rifle, any sight, shouldertoshoulder, off hand match staged by the Capitol City Rifle and Revolver Club of Sacramento, Cal., on July 25th.

Shooters in this match were handicapped by taking their best score of the past twelve months, subtracting it from the possible and dividing the difference by two. Thus a shooter having a top score of 270 would get a handicap of thirty divided by two, or fifteen. Unknown shooters were given the maximum handicap of thirty.

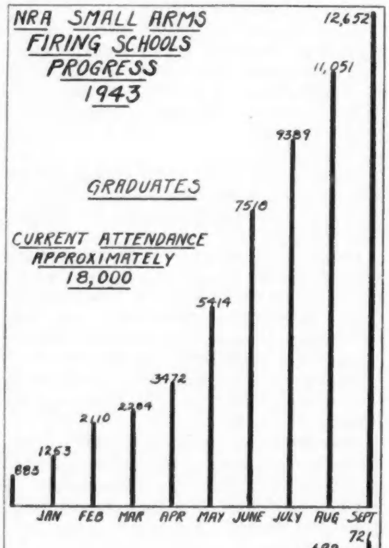
While this method of handicapping might enable a "dark horse" to enter, get the maximum handicap, and win over better shooters, it is also a method that should encourage new shooters and shooters of mediocre ability to compete against the experts.

"ON OUR SIDE"

Not always are we in sympathy with the published and spoken plans of manufacturers to sell their cars, their refrigerators, tires, et cetera, in the salesman's Utopia to come "after the war." Better to get the war finished first. But there's a thought for us, too. Witness the paragraph below, from "Metrogun," official publication of Metropolitan Rod and Gun Club of New York.

MRGC has just graduated fifteen men from its NRA-sponsored Pre-induction Small Arms Training Course under the direction of Fred Willing. "Metrogun" says: "MRGC is justly proud of this accomplishment, and looks with satisfaction upon the fact that they have actually produced fifteen men who are safe and intelligent gun handlers—fifteen men who know the whys and wherefores of rifle shooting—*fifteen men who are on our side,* as opposed to gun-cranks and manufacturers of screwy gun legislation—fifteen men better able to serve their country."

These fifteen will be part of a vast army of new riflemen and pistolmen who, if we do our job now, will carry on America's gun-heritage into post-war life. It's worth considering!



IT WORKS

Major Jerry Wallace says, in the San Francisco Chronicle: "Our hard shooting Marines received their early training with the .22 rifle. That gives assurance to civilians now preparing to take the small arms training courses that they are on the right track. . . . Principals which govern the firing of the .22 . . . are the same for other guns, even the sixteen-inch rifles in our Coast Defense batteries."

Evidently the California citizenry is so assured, for word comes of heartening activity among the clubs there in the Pre-induction Training Program. Especially active now are the Southern Pacific Rifle Club with Herbert Reiner as Chief Instructor; Mission Rifle and Pistol Club, with Ernest Koch; San Francisco Surf Rifle Club, with Joe Fasano; San Bruno, with Lester L. Black; and the Pacific Rod and Gun Club, with George Purdy.

Florida papers please copy!

TESTIMONIAL

NRA small bore shooter Lt. Roy L. Dunphy, formerly of Warren, Ohio, now with the 399th Bombardment Group, shook hands for the first time recently with the Army's full-grown member of the Springfield family—and found an old friend. Result: a score of 182 for forty shots (five sitting, five kneeling, ten offhand and ten each sitting and kneeling rapid fire) and a qualification of Expert for Lt. Dunphy.

"Even after having been told by you and others, I still didn't believe," says Lt. Dunphy, "that so many Americans reached the ripe old age of twenty-one or so without having ever fired a gun! But I'll believe it now! Believe it or not, one man shot a clean zero for forty rounds at 200 yards with the .30! I'm not such a hot shooter myself, yet I was the only guy who got above 100!"

There, brethren, is the whole doctrine of the Pre-induction Training Schools. What are you doing about it, in your club?

RUSH ORDER

Indiana Bell Telephone carries its ideals of Service into its production of riflemen for Uncle Sam. Two members of their recent Small Arms Training Class had a date with a uniform too early to allow them to complete the regular six-weeks' course, so the class went on War Production schedule and took the entire course of instruction in eleven days. Take it away, Mr. Kaiser! Give us the ships, we'll give you the men!

MUZZLE LOADERS

The Chicago muzzle loader enthusiasts have recently organized under the auspices of the National Muzzle Loading Rifle Association and are in search of suitable range facilities. The group appointed Morrison Worthington, Chicago attorney, as Executive Officer, and, as Secretary, Robert C. Stippe, 5208 North Hoyne Ave., Chicago.

DOPE BAG ☆ ☆ ☆

Conducted by F. C. NESS

THIS MONTH:

Lead Alloy Loads · .30-'06 · .30-40 Krag · Bullet Casting · .257 Roberts · .276 Newton · Bluestreak · .280 Ross · .22 H. P. · Loading Method · Shell Extractor · Pistol Sling · Range Rack · Trade Dope.

.30-'06 Gas Check. Roger Wilson of Tucson, Arizona, sent in a round-nose gas-check bullet, as cast. It was about 15/16-inch long and miked .312 inch over the gas-check cup and also over the broad base-band. The broad top-band miked .313 inch and, above the dirt catcher groove which marked its half-inch seating depth, the nose miked .309 inch. Mr. Wilson said the forward section of the new bullet was so large it had to be seated very deeply to permit closing the rifle action. He had sent me other samples from his home-made molds, previously, this being the latest one, designed for .30-caliber rifles. The temper was of our own favorite 2-2-96 alloy, and the bullet weighed 169 grains.

In the .30-'06 he used 14 grains No. 2400 and got 5 shots in about 2½ inches at 105 yards. He found a better load in 16.0 grains No. 2400 which put five in two inches and 4 in less than 1¼ inches. The other load had 4 in less than 1½ inches. This is very satisfactory accuracy in view of the prone position and metallic sights Wilson used. He says his converted Service Springfield simply will not shoot from any kind of rest. For a bullet lubricant he used beeswax softened with 20% petroleum jelly and graphited with Dixon's Microfyne powder. His bullets, of 2-2-96 alloy, well lubricated with this mixture, give no bore leading at all until he gets up to 27 grains of No. 3031.

It is surprising what this hobbyist Roger Wilson can accomplish with a five-buck drill press, a few files and one cheap low-grade mike. I have a set of his very neat photographs showing powder measures, bullet seaters and reloading tools of his own fashioning. His mold blocks are made of cast-iron paper weights, using old pliers for handles. His bullets, gas-check and plain base, are designed for deep seating because he wants no exposed lubricant in his pockets.

His pointed gas-check bullet, on the order of the Squibb design, was his first one and, therefore, most used. His charge of 15.2 grains No. 4759 sends these into 6-inch groups at 200 yards shooting prone without rest with his Springfield which has metallic sights and a full-floating barrel. Other loads were 16.0 grains of No. 80 and 14.0 grains of bulk shotgun. All the above propellants are fired with old style H-48 primers. He uses modern N.C. No. 120 primers with No. 3031 and HiVel No. 2.

Another round-nose was made .300 inch, or bore-size to the shoulder, and its bearing bands were sized .3125 inch for the .30-'06. He used a wax base wad .025 thick and either 9.0 grains bulk shotgun or 11.0 grains No. 4759 for 50-yard shooting. The base wad was made of Stewart 2 x 2 lubricant melted and brushed with Microfyne graphite on both sides. He makes his bullet seaters of old rifle barrels and regulates the seating depth by using cotter pins for stops in holes drilled, at predetermined arbitrary positions, through his seating plungers.

The last word from Wilson concerned a small group he fired in midsummer with his 126-grain round-nose plain-base bullet of 2 parts tin, 2 parts antimony and 96 parts lead. It was lubricated with Stewart 2 x 2 and Dixon's Microfyne graphite including the .025-inch base wad. The bullet was sized .3125 inch and it was seated in F.A. 1935 cases deeply enough to cover the grease groove. The load was 9 grains Hercules E. C. Bulk Shotgun Smokeless deleted of its fine dust by screening. It was fired with old F.A. primers. The iron-sighted Service Springfield put 5 of these into less than an inch at 100 yards. The average group, however, with occasional fliers and (called) bad holds, was closer to 3 inches.

* * *

Krag Lead-Alloy Load. F. W. Payeur of Clyde, Kansas, is over 60 years old, but he still gets groups with a Weaver scope in his own make of mounts on his Krag rifle, home-stocked of native walnut. He says his home-made powder measure will throw No. 3031 or No. 4198 to .3 grain variation or less. His loads in the Krag are: 27.5 grains No. 3031, 22 grains No. 4198 or 23 grains Lightning behind the same bullet, and all of them will shoot into a given 2-inch circle at 100 yards with the same zero.

Payeur has adopted Art Lamoreaux's lead tip for his alloy bullets (Ideal No. 308284) which he casts of type metal. He inserts the lead-tip stems about ⅛ inch deep or down to the first band. He sizes these bullets to .3115 inch for his .310-inch grooves and lubricates them with his own mixture of beeswax and beef tallow. The loads mentioned above have given him groups as small as 10 in 1¼ inches at 100 yards and 5 in 2½ inches at 200 yards. These bullets disintegrate when they land squarely, but ricochet badly at other angles of incidence. He shot a crow at 175 yards with this bullet. Another load he uses is the 115-grain .32-20 bullet with either 29 grains of No. 4198 or 28 grains of HiVel No. 3. At one time he killed 5 baited crows straight with this load at 75 yards.

* * *

.276 Newton. Friend Jim Wilkinson has a Gipson .276 Newton on which he uses a Lyman Alaskan scope and in which he shoots Barnes bullets. He and his wife got three elk with the 180-grain bullet at about 100 yards. It killed well, but blew up readily at that short range. Jim's load was 63 grains No. 4350 which chronographed 3090 f.-s. He uses Western No. 8½ N.C. primers. He also chronographed two other loads. The 160-grain bullet with 66 grains No. 4350 gave 3173 f.-s. and the 195-grain bullet with 60 grains No. 4350 gave 2791 f.-s.

In a shooting test at 200 yards, from a log rest, these loads shot into a common group of 4½ inches showing practically the same zero. The 14 shots comprising the group were as follows: 5 with the 160-grain in 3 inches, 5 with the 180-grain in 2⅜ inches and 5 with the 195-grain in 2½ inches. The latter had the lowest impact and formed the bottom of the total 14-shot group of 4½ inches.

Fred Barnes' .276 Newton has a medium-weight barrel on the M-1917 action chambered by P. O. Ackley. He tried a combination group at 200 yards with the 160-grain and 180-grain bullets and got practically the same results, or 5 inches total spread. Such similar impacts with different loads are desirable for practical reasons and they indicate these rifles are relatively insensitive to load changes.

* * *

Baldwin-Marciante Dope on the history of the Bluestreak wild-cat was submitted by E. S. Baldwin of Trenton, N. J., who says he sketched the cartridge in the winter of 1939 and worked it out with Al Marciante of the same town. Together they decided what dimensions to use, the 25° shoulder slope being Al's idea. Marciante made the reamers, and the first tryout was made on January 7, 1940. On April 25, 1941, they both called on J. Bushnell Smith who chronographed six different loads, whose ballistics have been quoted. Those published in the Dope Bag of July 1943 were obtained later with J. B. Smith's rifle, or in October 1941. Jerry Gebby became interested also and had Marciante make a pair of reamers for him. Baldwin had the first rifle of this caliber. His present Bluestreak has a Sukalle .22 barrel with a 12-inch twist in which he prefers the 40-grain bullet and kills chucks with it up to 300 yards. Its record to date is 135 kills. There is also a rimless Bluestreak on the .25 Remington case.

* * *

.257 Roberts. Francis Greene, of Roulette, Pa., uses a Model 70 Winchester with a 440 Weaver scope sight and .257 Roberts handloads. It is his first choice among rifles. Shooting in an area swept by gusty winds he finds its bullets are not deflected nearly as much as those of the .220 Swift. He prefers the 100-grain bullet for woodchuck accuracy up to 250 yards. His outfit and chuck load has made 200-yard groups which could be covered with a silver half-dollar. He uses 39 grains of either 4064 or 4320 and either the Western Silvertip or the W. T. & C. W. bullet. He also uses 38 grains of 3031 and 44 grains of 4350 behind these 100-grain pills. Also 36 grains of 4320 with the W. T. & C. W. 110-grain bullet.

Greene is of the opinion that the 117-grain bullets are most accurate in this caliber with about 37 grains of 4064 or 4320. He also uses 39.5 grains of 4350 as a deer load which zeroes the same as his chuck load. The 125-grain Barnes bullet with 44 grains of 4350 is long-range deer medicine and he says he has seen deer killed with it at over 300 yards. He said a high shoulder hit will slap a whitetail down in his tracks without spoiling much meat.

For varmint shooting he suggests the 87-grain hollow-point with 40.5 grains of 4064 or 4320, or the same charge with the 70-

V 91-9 SEP 43 XU

grain cavity point. For shorter ranges and cheaper bullets the 9-grain gas-check cast 1-10 and well lubricated can be used with 15 grains 4759 or a 65-grain gas-check with 12 grains Unique, for the heaviest load, and this same light bullet with lighter charges for such small game as squirrels.

* * *

Ross Remarks. Herbert Cox gives us the benefit of his comments, based on actual experiences as well as on opinions, regarding the strong but not-fool-proof Ross rifle and its loads. He claims two hands and some force are required to improperly assemble the bolt head. Mine would slip back on the slightest pretext, but this was an M-1905 in .303 British caliber having solid lugs and the receiver would not accept it. The much-maligned and as-often-defended one is the .280 Ross M-1910, with interrupted screw-thread lugs which, whose users (both wise and sorry) said, would accept their bolts even when the bolt heads had slipped back an inch and could be fired thus unlocked.

Mr. Cox said it (the badly assembled bolt) had to be forced on its ways, without denying that the receiver *would* accept it; and then, he said, it would "work with a very stiff and dead feeling." He admits injury might then result to the shooter, but only from fugitive gas, brass and stock splinters. He added that he felt "safer back of an M-10 [Ross] action than [behind] a Mauser type [of action]."

About Ross barrels, he said they were all 30 inches long and those segregated match barrels which failed to shoot into a 6-inch group at 1100 yards were cut off to 28 inches and became a part of the sporters. With Ross sporting ammunition they were guaranteed to put every bullet in the area of a post card at 500 yards. The twist was one turn in 8.66 inches.

About Ross ammunition, he said all Ross bullets were steel jacketed including a lubricated 110-grain Match load, at 3200 f.-s. in 28-inch barrels. It was intended for ranges up to 500 yards, whereas the 180-grain load, at 2800 f.-s., was intended for ranges of 500 to 1500 yards. The original 145-grain bullet was an Open Point, all three weights having the same ogive. There was a steel jacketed Ross copper tube and a U. S. cupro-nickel copper tube of this weight, and a W.R.A. pointed S.P. cupro-nickel bullet of 150 grains. The 145-grain bullets were far more reliable, he said, especially on the first shot. The m.v. was the same as the original 110-grain load.

* * *

Rifle Range Rack is shown in the photo as an inspiration to any interested reader. It was submitted by Harry C. Archibald of Saugus, Mass. His drawing dope shows the barrel rest (notched alternately on opposite edges) is 54 inches long and will accommodate two dozen rifles. It is placed about 3 feet above the butt support. The three uprights are 52 inches long and the four legs, 16½ inches. It is 26 inches wide. The spreading top forms a roof when covered and holds any hasty cover, such as a canvas, in wet storms. It was designed by Archibald for the Saugus Rifle & Revolver Club, Inc.

Broken-Shell Extractor. During these times when a real gunsmith can hardly be found and is so busy, if found, that he cannot work on your pet rifle for weeks, a broken or blown-off shell sticking tenaciously in the chamber is a disaster.

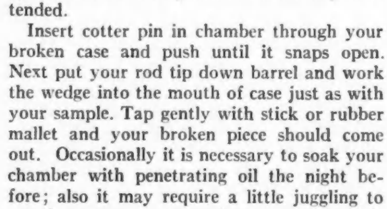
I have been in this fix and have evolved a simple method of removal that works even when the splendid commercial extractors fail to remove it.

Secure a cotter pin slightly smaller than the neck of your case, preferably with considerable spring. Cut off a sample case of your caliber with small metal saw just at solid head where they usually break. With a small file make a shoulder cut around the split end of cotter pin slightly deeper than the thickness of the brass and slanting slightly backward.

The cut must not be more than 2-mm. from the end of the cotter pin or it will not spring out when pushed through the neck of the shell. File off round top of cotter pin at least length of neck so that it can open without interference. Insert pin through sample case and smooth off all the rough edges to avoid injury to chamber. It will spring up with a snap and leave a more or less rectangular space in the mouth of the case.

Next take the proper size drill rod, cold roll, or plain cleaning rod and file a wedge that will enter between lips of cotter pin while held in sample case but tapered so that it will force lips of cotter pin apart and backward. You may have to file the sides of your wedge a trifle, also file a right angle shoulder on rod just about where it will come when lips of the cotter pin are sufficiently distended.

Insert cotter pin in chamber through your broken case and push until it snaps open. Next put your rod tip down barrel and work the wedge into the mouth of case just as with your sample. Tap gently with stick or rubber mallet and your broken piece should come out. Occasionally it is necessary to soak your chamber with penetrating oil the night before; also it may require a little juggling to get the cotter pin to spring open and catch due to the elongation of case neck which usually occurs when you reload too many times without filing to standard length.



The Archibald 2-row rifle rack is shown without roof or cover (right).

This method will work when the regular broken-shell extractors fail to catch and has the advantage of working equally well on rifles not having powerful cam extraction. Dr. F. W. Danby.

* * *

Bullet Casting. As to the casting of the bullets, I use the methods and equipment that some 20 years of bullet-casting experience has shown me to be the best to get uniform bullets. No use of going into all that, of course, but I do find, with an antimony alloy and a big bullet such as the .38-55 or .45-70, no matter how the cut-off on the mold is adjusted or how sharp it is or how the temperature is controlled or how the time of the ejecting of the bullets in the mold is regulated, that, in spite of Hell, after the bullets are stone cold there will be a slight protrusion where the sprue was cut off.

I just take a sharp knife and trim this protrusion down flat, before running them through the sizer and lubricator, as, if this is not done, the protrusion will let them rock around a little on the bottom punch of the sizer and many will go into the die at a slightly-tipping angle and will be sized more on one side than the other. This is a small thing, but it does have quite an effect on the extreme size of small groups, perhaps half an inch or even more. Cast bullets are tricky things at best, and when one puts them into old rifles using straight cases matters are harder still. So it pays to look to every little thing; in fact, one *must* if success and small-groups are the goal of experiments and pleasure with the old-time target rifles.

It is my unaltered opinion, backed by years of experience, that a suitable cast-bullet cannot be made unless both tin and antimony are incorporated in the alloy. When casting from an open pot and using a dipper, as most of us are forced to cast our bullets, it is absolutely necessary that models be vented so as not to trap air, regardless of the position in which they are held. The new molds, such as Bond, Hensley and Cramer, have scored inner block-faces and do not as a rule need venting. The Ideal, Winchester and others do need venting, especially at the end of the cavity opposite the pouring hole. Unless this is done the bullets will not be of uniform weight. As they drop from the mold they will look perfect and as alike as two peas in a pod, but the weight will vary. They may measure the same across the rear bearing part, but still the weight will vary. Cast bullets should not vary more than .5 grains at the most. The best ones do not vary more than .2 grains. The ones I am sending you are not selected so you may catch me up on this point, but I do not think so.

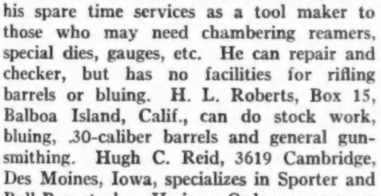
To vent use a die-sinker's needle-file and cut the grooves in the usual way. This will raise a burr on the inside of the cavity edge, making bullets stick in the mold. To correct this condition, cast a few bullets in the mold. Drill a small hole in the center of the bases while they are held in the mold and use a wood screw with the head cut off as a shank. Chuck this in a small hand-drill or breast-drill and clamp the handle or staff of the drill in a vise. Coat this bullet lap with very fine abrasive and lap the cavity a few turns on the drill handle. Thirty or forty turns is usually enough. This removes the burr and puts the mold in perfect shape. Never use power tools in lapping a mold and never clamp a mold in a vise or on a lathe bed. Hold the mold in the hand so the lap can follow the cavity freely. Any other method invites disaster in the shape of a ruined mold. If power tools are used or the mold clamped down solid, either the point or the base of the cavity will be ground out of round.—V. E. LAYNE.

* * *

Case Steel. Out of Gary, Indiana, and its Open Hearth furnace area comes some interesting dope on low carbon steel for cases, running from .13 to .16 and containing less than .08 of all alloys, from scrap or otherwise, and not more than .03 of sulphur and .02 of phosphorus, which latter two impurities make steel brittle. The included alloy is .40 to .60 Manganese. John Perzo, who is responsible for the dope, says that cartridge case heats are the very most particular and carefully conducted of any. When alloys are inadvertently included from steel scrap, that heat becomes unsuitable and is allocated to some other less critical order.

* * *

Gunsmiths. L. H. Brown, R. 2, Box 158, St. Joseph, Michigan, can do a limited amount of restocking, but wants no jobs without pre-arrangement. H. C. Kent of Bidwell, Ohio, specializes in welding and in tightening single and double guns, making stocks for same and muzzle-loading rifles and in repairing cap-and-ball revolvers, but can take on some other gunsmithing as well. Keith Stegall, Box 1101, Pampa, Texas, can get out plain stocks in reasonable time for rifles and shotguns, and also some checkering on special orders. Eugene H. Marmonti, 21 Warwick Road, Watertown, Mass., offers his spare time services as a tool maker to those who may need chambering reamers, special dies, gauges, etc. He can repair and checker, but has no facilities for rifling barrels or bluing. H. L. Roberts, Box 15, Balboa Island, Calif., can do stock work, bluing, .30-caliber barrels and general gunsmithing. Hugh C. Reid, 3619 Cambridge, Des Moines, Iowa, specializes in Sporter and Bull Pup stocks. He is an Ordnance armorer and can devote only his spare time to this work; no chambering or rebarrelling for the duration. Fred X. Johnson, Box 86, Grand Ridge, Ill., can do about everything in gunsmithing, including: rebluing all but plated arms, restocking every type of firearm, altering bolts, reversing the cocking of the M-'17, bushing firing pins, rechambering shotguns and fitting available chokes, fitting barrels for Hornet, Lovell, Roberts and H. & H. Magnum calibers when his customer furnishes same, mounting sights of all kinds and general tuning up. For our Canadian readers, Ellwood Epps of Clinton, Ontario, says his shop continues to furnish and make and fit replacement parts, mount sights, blue and do general gun work. His stock of barrels is running low and only certain calibers can still be furnished.



THE S & F PISTOL SLING

To those of the Rifle Shooting clan, or to those who may read the chapters on Rifle Marksmanship in the Infantry Drill Regulations of the United States Army, it is obvious that—"the sling is used to steady the hold in firing."

The value of this additional support has been proved time and time again over the past years, and today it is as much a part of the rifle, as is the bolt or trigger. The co-authors of this article having recognized this value in its fullest, asked themselves, and each other—"Why not a sling for hand gun shooting? Why not?" Having surveyed the field, in an effort to find the answer, and being unable to learn of any such equipment, they decided to try to construct such a sling.

That these men were qualified to undertake this task is best explained by the fact that Frank Flynn is Range Master of the Lower Merion Township Police Pistol Range, where in the performance of his varied duties he has been required to train rookie patrolmen in the art of pistol shooting. This has afforded him an excellent opportunity to observe beginners and their faults. Harry Swing, a shooting enthusiast for many years, has always been interested in any new item that works for improvement. And so together, they set to work.

The process of this development is of little interest to the average reader. The results are the all important factor, and so a description of the new S & F Pistol Sling follows:

A leather band, four and one-half inches wide, is attached snugly to the wrist of the shooting arm. On this band, at a point to the rear of the thumb, is a metal ring. Into this ring, by means of a snap connector, is attached a leather strap (¾" wide) which extends over the shoulder of the shooting arm, around the back of the neck and down across the shoulder to the other hand. By drawing down on the strap with the lower hand, pressure is transmitted to the shooting hand, which according to the definition of a sling—"steadies the hold in firing."

At this time time when Civilian Defense is so important, and when so little time is available, the S & F Pistol Sling serves a purpose in preliminary training of steadying nervous or jittery shooters. The men of the Coast Guard Auxiliary and Auxiliary Police have used this sling with beneficial results. Experiments have been conducted on experienced shooters, who after violent exercise, accompanied by very heavy breathing, have shot far better with the sling than without it.—SWING & FLYNN.

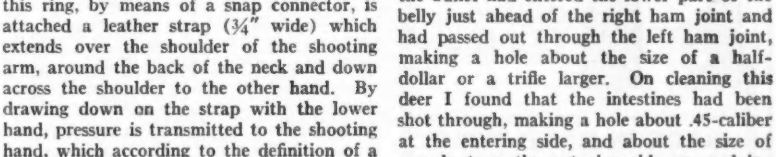
* * *

Loading Theory. I am writing you at this time to give you a summary of my experience to date with my system of combination loading in high-powered rifles. The results I have had with the .22 Hi-Power Savage necked to Hornet-sized bullets have been so satisfactory that I have used this gun for all my hunting since I have had it back from Sedgley. To date I have killed 4 deer, 18 coyotes, and other varmints too numerous to mention, and too, last year I killed two wild turkeys with it.

The first deer I shot, I wanted to be dead sure to kill it on the spot, as I had not tried the gun out on game this large before, so I shot it squarely between the eyes at about 75 yards, estimated. I didn't cut up the head and don't know just what the bullet did to the inside of it. The next deer walked behind a clump of brush, and I could only see a gray patch of deer hide which I thought was his shoulder, and I took a shot at the lower part of it. At the crack of the gun the deer went down and scrambled around on the ground for a minute, but finally got back on his feet, and was standing with his hind quarters quite low, and his head hanging down, ears hanging down, and eyes nearly closed. In other words, he was a very sick deer and I shot him again to finish him off.

When I walked over to him I found that I had shot him through from right to left, and the bullet had entered the lower part of the belly just ahead of the right ham joint and had passed out through the left ham joint, making a hole about the size of a half-dollar or a trifle larger. On cleaning this deer I found that the intestines had been shot through, making a hole about .45-caliber at the entering side, and about the size of a walnut on the outgoing side; no pulping and not very messy. The ham had a round hole, walnut-sized, through it, and the bone

The Swing and Flynn pistol sling as employed.



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RIG KEEPS RUST OFF GUNS INDEFINITELY!

While we're away—the rust will play! But, it's not going to play on our "Shooting-irons" because we've anointed them with RIG, the finest rust preventive available! We've learned from gun experts that a 2 min. app. inside and out after day's shooting stops ammunition, fingermarks, sea spray, rain from damaging guns. Tests prove RIG unsurpassed for gun storage! At gun stores—tubes 25¢. ¼ lb. 50¢. Accept no substitutes. Write free literature!

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MAJ. CHAS. ASKINS, Dean Amer. Arms Experts, Celebrated Writer: "Excellent deep-blue finish with surprising speed." NO HEATING — Not a paint. COLD CHEMICAL PROCESS responds instantly—ON CONTACT! Transforms rustiest guns into new fire-arms in minutes. Unsurpassed for patching. Color control. For tools, too! At outstanding Sporting Goods and Hardware stores everywhere. Avoid disappointment, accept no imitation. YOUR DEALER HAS IT. ASK FOR IT BY FULL NAME.

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A beautiful, tough, durable oil type finish; will not scratch. Prevents warping by sealing out moisture and oil. Less than half the time required. Finish $1.50, Filler $1.50 — both for $2.50. Enough for several stocks.

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was pretty well pulverized; but still no pulping, or bloody foam.

The next deer was a broadside standing shot, and I shot him in the center of the shoulder. At the crack of the gun he hit the ground turned over on his back, and his legs were sticking straight up and quivering somewhat, but they fell over and that is all the movement that deer made after he was shot. On cleaning him out I found his heart, lungs, liver and the wall between the chest cavity and belly were pretty well cut up. In fact, it looked like someone had been cutting around in there with a sharp knife as most of the cuts were fairly clean with a few jagged-edged places, but still no pulping or bloody foam. The last two of the above described deer were both shot at 85 yards with 55-grain Sisk Express bullets. The duplex load was 6 grains No. 2400, 2 waxed wads and 24 grains No. 4064.

Of the two turkeys mentioned, one was a standing shot at about 50 yards, and I got in a lucky head shot. But the other one was running straight away from me at about 75 yards, and I hit him about an inch to the left of the vent hole. On cleaning him I found his insides cut up much as was the deer, above mentioned, but no bloody foamy mess as I had expected to find. I am convinced that the absence of pulping and of bloody messy foam is entirely due to the fact that with the type of loading I use the bullet cores are not melted, and, conversely, that the explosive effect obtained with standard loading in all high-velocity rifles is due to the melted core of the bullet being literally sprayed into flesh, blood and insides of the game shot.

I say, "sprayed," because of the spinning effect of the bullet. After the jacket is disrupted the melted lead core is really literally sprayed out at terrific speed. I believe that the animals shot with my gun get just as much of a hydraulic-shock as do those shot with the Swift and other high-velocity rifles, as note the effect on the deer shot through the belly; certainly nothing else but shock put this deer out-on-his-feet, as the place where he was shot was about as poor a place as one could choose on a deer.

I believe that where the bullet leaves the muzzle of your gun all in a solid mass, and not with melted core, or partly-melted core, that you could reduce the rate of twist of the rifling a considerable amount, and still stabilize the bullets. Some of the older calibers which shot solid lead bullets, like the .38-40 Winchester, had a twist of one turn in 36 inches. I know that this is a low-velocity cartridge, but if you push that bullet through that same barrel at double the speed it normally has, then you naturally double the rate of spin. My gun has a twist of one turn in 16 inches, and it shoots the 55-grain Sisk-Niedner and 55-grain Sisk Express bullets to minute-of-angle accuracy, and I believe that I am getting around 100 foot seconds more velocity because of the slower rate of spin. I don't mean to imply that you could stabilize a 130-grain .270 Winchester bullet with any such slow twist as the .38-40 uses, but I do believe that you could reduce the twist to one turn in 16 inches, and this would help speed up the velocity too, due to reduced friction.

I have watched with a great deal of interest all the late developments in wild-cat cartridges, and how they perform, with special attention as to accuracy and erosion of the chamber throat, and I have noted that those cases that are short and thick seem to give the best accuracy, and the least erosion. An especially good example of this is the .22 Gebby-Varminter, and I believe that the new Miller .22-348 will be a good one too. I believe that this is due to the difference in the way the powder is ignited in these short, thick cases. The powder is naturally ignited first at the mouth of the flash hole, and in a short thick case the entire charge is ignited before the case neck is expanded away from the bullet, and the rebound effect of this probably throws the entire charge of powder back into the base of the case, and since the fire is all in the rear end of the case, the gas which escapes around the bullet is not as hot as it would be if it were blown through a mass of hotly burning powder, which is what I believe happens in cases having a long slim powder chamber.

The powder next to the flash hole explodes and shoves the long column of powder ahead of it against the base of the bullet, and of course it ignites too, but a trifle of a second later than the lower part of the charge, and, as the case expands away from the bullet, the escaping gas that rushes out around the bullet before it gets under way is blown right through the hotly burning powder which has been shoved up against the base of the bullet, and this increases the temperature of the escaping gas many fold, which in turn causes two things: (one) it causes erosion of the chamber throat because of the terrific heat of the escaping gas, and (two) it also melts the core of the bullet.

For confirmation of these ideas check your own experience with the .22 Gebby-Varminter as against that of the .22 Lightning based on the .30-40 Krag case, also check O'Neil's experience with erosion when he was first trying to develop his .25 Magnum. I think that R. W. Miller is on the right track with his Venturi-shaped case-shoulders. I believe that if he would use the system of combination loading which I use he could do away with his free-boring idea.—A. J. SCHUBERT.

TRADE DOPE

P. O. Ackley, 2747 Monroe Blvd., Ogden, Utah, says his Service job keeps him busy, but he is anxious to help as many as possible. His plea is for patience, as every time he answers a letter he must leave his bench. Correspondence has taken too much shop time.

* * *

No More Tenite or tips or caps or Bull Pup or Heavy Target stocks can be had from E. C. Bishop & Sons. Sporter stock blanks with heavy fore-ends are still furnished.

This one's going to hurt!

Invasion comes high—in blood and money.

Part of the cost must be paid with human life. That means deep and lasting hurt for many and many an American family.

Part of the cost must be paid in cash . . . this September. And *that's* going to hurt, too!

The 3rd War Loan Drive is here!

To pay for invasion—to get the money to keep our fighting machine going—you, and every man or woman in America, are asked to invest in at least one extra $100 Bond in September.

$100 EXTRA, mind you—for *everybody!*

No man or woman can hold back. No man or woman can point to his Payroll buying and say, "They don't mean me!" No man or woman can say, "I'm already lending 10% or 12% or 20%—I'm doing enough!"

Sure—it's going to hurt. It's going to take more than spare cash this time—more than just money that might have gone for fun. It's going to take money you have tucked away. It's going to take part of the money we've been living on—money that might have meant extra shoes or clothes or food! Money that might have gone for *anything* that we can get along without!

Sure—it'll be tough to dig up that extra money. But we've got to do it—and *we will.*

We'll do it partly because of the look that would come over the faces of our fighting men if we should fail. We'll do it partly because the cheapest, easiest way out of this whole rotten business is for everybody to chip in all he can and help end it quick. We'll do it partly because there's no finer, *safer* investment in the world today than a U. S. War Bond.

But mostly, we'll do it because America is right smack in the middle of the biggest, deadliest, dirtiest war in history.

And we're Americans.

Back the attack with War Bonds

This space contributed to the Third War Loan Campaign by

THE NATIONAL RIFLE ASSOCIATION OF AMERICA

THE ARMS CHEST

THE ARMS CHEST is an open market trading post where manufacturers, dealers, professional gunsmiths, and our own readers may advertise their goods and services to fellow sportsmen at a modest cost.

Returns are uniformly excellent—scores of advertisers report truly phenomenal results.

The rate is ten cents per word *including name and address*, minimum charge $1.50.

Groups of figures are counted as one word, also usual abbreviations made up of single characters or initials. Hyphenated words are counted as two.

Non-specific phrases such as "highest prices paid" and "top prices paid" are objectionable and cannot be accepted; the terms "fair prices paid" or "state price wanted" may be used. A *specific* price must be stated on all *for sale* ads except that a phrase such as "details on request" may be used when listing *quantities* of similar merchandise or *real estate*.

Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the *5th of the preceding* month.

Please print all advertisements *plainly*—we cannot be responsible for errors due to illegible writing. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and impair the effectiveness of your ad.

We reserve the right to edit all copy to conform with our standards, and to decline or discontinue any advertisement which we consider objectionable. All orders accepted are subject to these conditions.

In describing the CONDITION OF GUNS advertised these standard phrases must be used: PERFECT means factory condition. EXCELLENT means new condition, implying negligible amount of use. VERY GOOD means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. GOOD means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. FAIR means reasonable hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. POOR means marred appearance and pitted or badly worn bore.

ARMS CHEST transactions are based entirely on good faith and mutual satisfaction. Deliberate misrepresentation or disregard for ordinary business ethics will, of course, result in expulsion from N.R.A. Membership and from the columns of the Magazine.

Purchasers who wish to examine, before acceptance, guns or equipment purchased thru these advertisements should request shipment by express, C.O.D. *with examination privileges.*

AMMUNITION SALES

Prices on ammunition, like everything else, are out of line. In sales approved, however, through the main source of supply, WPB, the Office of Price Administration has established prices which were in effect the early part of 1942. In recognition of these regulations, therefore, the following policy is instituted for advertising of certain types of ammunition in the Arms Chest.

No large amounts of .22 Long Rifle ammunition will be advertised FOR SALE or WANTED. Amounts up to 1,000 rounds will be allowed if prices do not exceed $10.00 a thousand. .45 A. C. P. and .30-06 Gov't Arsenal ammunition (M1 and M2) —no amounts above 500 rounds, prices not to exceed $6.00 a hundred for the former and $10.00 a hundred for .30-06.

AUCTION TYPE ADS

Advertisers must state a specific price for items excepting in cases where quantities of similar merchandise are listed. The phrase "details on request" may then be used. But efforts to circumvent this policy by advertisers requesting a higher price than that listed in their classified ads, thus encouraging auction bidding, when brought to our attention, will result in refusal of further advertising from such an advertiser and the rejection of membership renewal.

FIREARMS & SUPPLIES—GENERAL

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FOR SALE: 2R WINCHESTER S.S., HI-SIDE Wall, heavy 26" barrel; minute of angle groups; Lyman Jr. Target Spot 10X, as new; 700 Primers, 300 bullets, 100 cases, Pacific dies complete; lead wire 50#; jackets; .22 L. R. Copper, and die to remove rims, all or none; F.O.B. first money order $180.00. Stamp for reply. Dr. C. W. Ellis, Sisseton, South Dakota. 9-43

SPECIAL SALE OF NEW AND USED SHOTguns and rifles. List ready. Stamp please. Kimball Arms Company, Woburn, Mass. tf

.37 REMINGTON NO. 00983, EXCELLENT, FACtory sights, Army sling, $79.50. 20X Mossberg scope & stand, leather carrying case, very good, $30.00. 1⅛" 10X Fecker, surface worn, very good, ¼ minute Mounts, dust caps, $60.00. Frederick Post Co. drawing instruments, Primo No. 638, excellent, $50.00. Guy Isenberg, Hillcrest, Kingsport, Tennessee. 9-43

REMINGTON RANGEMASTER 37, COMPLETE, factory new, $85.00; Buffalo rug, nice specimen, $50.00; Mauser Sporter, .30-'06, Model 165, $125.00; Winchester .410, Model 42, $55.00; Winchester 97-12, Trap Grade, Weaver choke, $75.00; Winchester 94 Carbine, 32 Winchester caliber, 2 boxes shells, $50.00; S&W .32-20 X 6" military, 5 boxes 22 x 6", $60.00; all excellent or better. Zeiss 8x30 C.F. binocular, $125.00; Schutz 8x38 C.F. binocular, $125.00. Contax 11, f:2 Sonnar, & f:4 Triotar lenses, everready and carry all cases, Master meter & filters, like new, $350.00. G. Bennett, Box 81. Hartford, Wisconsin. 9-43

SAVAGE 99, .303-20" LYMAN REAR, $60.00. Arolyn marksman 4 to 8X, scope, $10.00, both fine. J. C. Failing, Seneca, Illinois. 9-43

16 GAUGE WINCHESTER-21, 28" I.C.&M., pistol grip, excellent, $70.00. 12 gauge Winchester-21, 30" M. & F., pistol grip, pad, excellent, $70.00. .33 caliber Winchester, latest Model-86, factory Parkerized, Lyman-38, perfect, $50.00. R. P. Anthonisen, Box 95, Angola, New York. 9-43

CUSTOM .300 H&H SEMI-SPORTER TARGET Magnum. New 70 action, original John Dubiel select match 26" x 1¼" x ¾" barrel. Perfect chamber. Hendsolt 2¾X Dialyt scope, very low Stith mount. Very accurate, shot only for testing. 100 shells, Pacific resizing die, bullet seater, shell holder, $295.00 approval. E. G. Pope, Lubbock, Texas. 9-43

EXCELLENT 54 WINCHESTER HORNET, standard, National Match, hi-comb beautifully figured oil finished stock, 48J, scope blocks, 350 factory hi-speed Hornet loads, 75 handloads, 100 primed cases, 125 Western 46 grain O.P.E. bullets, ½ lb. No. 2400, Lyman tool with resizer, Pacific scale, funnel, 3 Loading blocks, outfit $120.00; Custom .22 Automatic Sporting rifle, on No. 24 Remington action, 52 Winchester 24" barrel, very accurate, checkered stock and forearm, 440 Weaver click, rebuilt by Litschert to 1¼" obj. B & L lens, 8X, crosswires, low "B" mounts, rifle excellent, scope perfect, 500 .22 L.R. cartridges, $110.00; .30-'06 bull gun by Sukalle on Enfield action, ears ground off, reblued, finely checkered, custom prone stock, 30" x 1¼" x 1¼" bull barrel, blocks, no sights, excellent, $75.00. Lynn H. Paulsen, Court House, Sioux Falls, S.D. 9-43

TARGETMASTER, GOOD, 500 LEADERS, $15.00; Model 90, .22 Short, good, $12.50; Malcolm, 4X, $15.00; Brown & Sharpe metric micrometer No. 8, $7.50; Lyman Tang sight Model 90, $2.00; 17A $2.00; 12 x 48 snow shoes, $8.00. 30-'06 F.A. 37, $6.00 per hundred. C. H. Pendleton, Granite Falls, Minnesota. 9-43

FOX STERLINGWORTH 16 GAUGE DOUBLE, F. and M., two boxes shells, excellent, $50.00. Winchester 74 automatic Long Rifle, 5 boxes cartridges, perfect, $30.00. Glen Maurer, Route #3, Elyria, Ohio. 9-43

.25-20 WINCHESTER 1892, LYMAN PEEP, 22 inch round barrel, half magazine, 50 rounds, good, $22.50. Colt Officer's Model, .38, holster and belt, 7½ inch barrel, inside perfect, blue slightly worn, 50 rounds, $50.00. C. A. Miller, The Dallas, Oregon. 9-43

WINCHESTER .410 GAUGE, MODEL-42, NEW condition, full choke 28 inch barrel, fitted with Weaver 1X scope, 50 Super X 3-inch shells. Price $65.00. George Oberfell, Bartlesville, Oklahoma. 9-43

SELL: BROWNING OU'S; WINCHESTER TRAP guns; Colts, OM and 1917; S&W MP; 65mm Telescope; Civil War Carbines; Kentuckies; WANT—Shotguns from .410 to eight gauge; Target rifles and pistols. No lists; stamp for prices. Fred X. Johnson, Grand Ridge, Illinois. 9-43

REMINGTON 141 CALIBER .32, PERFECT, 2 boxes ammunition, $65.00. Colt Officer's Model .22, ivory grips, excellent, $60.00. Colt Official Police .32-20, very good, 50 rounds, $45.00. Colt D.A. .38 about good, cartridges, $37.50. Belgian Browning 12, 2 barrels, 30" full, 28" mod., excellent, $90.00. Remington auto. 12 gauge, new barrel, receiver needs blue, $45.00. 12 gauge Ithaca 37S, excellent, case, $75.00. Sam Browne belt and holster for Colts heavy frame revolver, $8.00. Also have very choice Labrador retrievers for sale. Don Thompson, Lodi, Wisconsin. 9-43

SPRINGFIELD No. 1207108, TYPE C STOCK, perfect, $60.00. 280 cartridges FA'35, with gun only, $20.00. .45 Colt M1917, very good plus, $37.00. Stamp. James DeYarman, 216 North Twentieth, Cedar Rapids, Iowa. 9-43

FOR SALE—REMINGTON .35 AUTOMATIC Woodsmaster Model-81, excellent, shoulder strap, sheep skin case, four boxes shells. Been fired 16 times, $110.00. Dewitt Lance, Nashoba, Oklahoma. 9-43

FORTY ODD MODERN GUNS YET UNSOLD. See March Issue. List dime. L. C. Hitch, Route 2, Marywille, Tennessee. 9-43

FEDERAL EXPLOSIVES ACT

Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Such license is usually obtainable from your County Court Clerk. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

WINCHESTER 70 HORNET, 8X JUNIOR TARgetspot, Monte Carlo cheek pad, sun shade, Whelen type sling, 500 factory cartridges, all excellent to perfect, $175.00. J. Rufus Tucker, 8719 Granby Street, Norfolk, Virginia. 9-43

KRAG SPORTER 24 INCH, RICE PEEP, BLUING new, barrel good, swivels, trigger guard and butt chromed. 8 boxes fresh Kleanbore, $50.00. 30-'06 Mauser Sporter, good. Cheek piece stock, full ribbed barrel, barrel band, engraved receiver, swivels, flat bolt handle. 2 boxes fresh Kleanbore, hundred 35 issue, $50.00. Dr. B. R. Kinter, Box 333, Bluefield, West Va. 9-43

FOR SALE: VERY GOOD WINCHESTER-52 WITH 500 Kleanbore, $50.00; good Remington Model-25 in .32-20 caliber with cartridges and reloading tools, $25.00; very good Springfield 12 gauge double barrel shotgun, $25.00; good Model-210, 4 horse power Johnson outboard motor, $45; all F.O.B. Orla Clark, St. Johns, Michigan. 9-43

FOR SALE: WINCHESTER MODEL-86 .33 CALIber, good, $30.00. Ithaca Field double, 12 gauge, good, $39.00. Winchester Model-69 .22 caliber, Excellent, $18.00. Cartridges for all. Fred Herrick, Seeley Lake, Montana. 9-43

GRIFFIN AND HOWE .257 HEAVY BARREL ON 54 action and stock, 48W, ramp front, scope blocks, Q. D. sling, 75 hand loads, 60 empties, $80.00. Selected Hornet 54, 48W, 17A, blocks, 40 cartridges, $65.00. Targetspot 8X and mounts, $55.00. Remington-37 complete, $60.00. Model-54 .270 barrel, $8.00. Colt .32 Police, $30.00. Mossberg 4X scope and mounts, $15.00. All gun crank condition. Rifles group less than 1" in 100 yards. W. C. Schirmer, 1203 Earlington Rd., Brookline, Upper Darby, Penna. 9-43

FOR SALE: .30-30 SAVAGE SINGLE SHOT, VERY good, 20 shells, $25.00. .30-30 Winchester 94, poor, 20 shells, $30.00. .32 W.S.L. Winchester, very good. 100 shells, $50.00. .38-55 Winchester 94, poor. 20 shells, $25.00. 22 H.P. Savage 99, poor, 45 shells, $25.00. Russell Martin, Roscommon, Michigan. 9-43

IF YOUR MAGAZINE IS LATE!

The AMERICAN RIFLEMAN is mailed geographically, during the last week of the month preceding date of issue. In normal times all U. S. subscribers should receive the magazine on or about the first of the month.

In wartime, however, the strain on our postal and transportation systems makes it impossible to maintain normal magazine delivery schedules. While we hold to the geographical mailing, worked out in co-operation with postal authorities, delays in distribution to various sections may occur at times, although we have found that such delays are not necessarily confined to certain areas regularly. If your copy is late, therefore, we ask your indulgence. It is due to wartime conditions and beyond our control.

STEVENS WALNUT HILL 417, SCOPE BLOCKS, Marble Goss base rear, good to very good, $35.00. E. F. Hammel, Sumner, Iowa. 9-43

SPORTING SPRINGFIELD 1,427,863, REDFIELD front ramp, Lyman 48, fine stock. $90.00. Enfield, Winchester 20 barrel, rear sight removed and blued, no stock or sights, $35.00. 21 oz. elephant Ivory $12.00. Beautiful carved Ivory handles for .38-44 Smith and Wesson $14.00. New skirting leather, thong laced case, for Springfield, $20.00. Whelen American Rifleman $7.00, Greener Gun and its development, $10.00. A. E. Osborn, Box 81, Fort Smith, Arkansas. 9-43

.30 CALIBER N.R.A. SPORTER, LYMAN BASES, gold bead and 48, refinished stock, Pachmayer butt-plate, very good. About 200 hunting loads, $75.00. Bullets: 450, .30 caliber, 125 grain Barnes, 400, 100 grain, 200, 90 grain, .257 Barnes, $5.00 per 100. J. Bushnell Smith, C.M.M., Naval Receiving Station, Supt. of Ships, USN, Quincy, Mass. 9-43

SUPER GRADE .30-'06 WINCHESTER 70, EXcellent, fired less than 100 rounds, G & H mounted Alaskan scope, 2 bandoliers 1930 F. A., $150.00. Hal Drake, Box 57, Station D, Atlanta, Georgia. 9-43

FOR SALE: CUSTOM BUILT .240 SUPER VARminter on a 30 Remington action with a beautiful Sporter stock, excellent in and out, with a 20 power Hubalek scope, Lee Dot, two pounds 4350 powder, 500 bullets, 500 primers, 70 handloads, 75 cases, Pacific dies for reloading, complete, $250.00. No splits or trades. N. C. Meyer, 431 B. R. R. 6, Galbraith Rd., Loakland 15, Ohio. 9-43

LARGE STOCK OF AMERICAN AND EUROpean Antique Arms. Send 10¢ coin for latest 9th edition catalog, featuring the important Dr. Buck collection. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

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WINCHESTER 52, NO. 56564B, H. B., MARKSman stock, Redfield front, Marble-Goss extension rear, trigger shoe, shooting sling with "3100" keeper and sponge-rubber cuff. Perfect except forearm slightly marred by metal keeper. 400 EZXS, 100 Super match mark II. $85.00 M.O. or certified check. Alfred Homes Lewis, 7 Cottage St., Newport, Vermont. 9-43

FOR SALE: 1 COLT .38 SPECIAL, O. M. T. 6", $60.00. 1 Colt .45 Colt, new Service, 7½", $40.00. 1 Remington .22 caliber, Model-12 C, Lyman peep, $25.00. 1 W. W. Greenier hammer, 10 gauge Magnum, 32" barrels, 10¾ lb., can furnish 18 boxes shells, gun, $160.00, shells $2.00 per box with gun only. All above guns, very good or better. Money order please. J. Clifton Green, Life Member, Centerville, Maryland. 9-43

GUNS AND AMMUNITION, LIST FOR STAMP. Alliance Gun Exchange, Alliance, Ohio. 11-43

K-22 SLIGHT MAR ON PLATE SCREW AND latch, scratch on cylinder, otherwise perfect, $72.00. Colt frontier .357 Magnum, 5½", perfect, $100.00. H. & R. .32 Hammerless 3", very good, $12.00. U. S. .32, 2½ nickel, new, $8.00. I & J .38, 3½, good in, finish worn, $10.00. Burnside .54, 1864 Cavalryman carbine, very good, shells, $45.00. Remington .41 double Derringer ivory grips, good, $12.00. Antique cane gun about 28 gauge, serviceable, $45.00. 10 to 50X Multiscope, optically perfect, finish slightly worn, case, $22.50. Apothecaries scales, glass cover, used, very accurate, $22.50, Stamp. Harry F. Craig, Mt. Vernon, Ohio. 9-43

COLT NEW SERVICE .45, 7½ INCH BARREL; very good inside; outside slightly holster worn, cylinder tight; 73 cartridges, belt holster; first fifty dollars get it. John Elmer, Deposit, New York. 9-43

SELL: PERFECT PARKER DOUBLE D.H.E., 12 gauge 30", both full, weight 7 lbs. 9 oz., 2¾" chambers. Fine russet leather case included, $115.00. George Suddard, 102 N. Wacola Ave., La Grange, Illinois. 9-43

NEW WEAVER 330, $30.00. MODEL-19 SAVAGE, excellent in, good out, target sights, $35.00. Colt .32-20, $30.00. Want Colt or Hi-Standard target. L. Clark, Life Member, Mildred, Montana. 9-43

HORNET 23D SAVAGE, EXCELLENT, 29 S scope, sling, extra clip, $40.50. Winchester-63, perfect, $36.00. Remington Model-24, good to very good, .22 Short, $21.50. Stephen Raba, 83 Hamilton Place, New York 31, New York. 9-43

ONE NO. 65 NEW ORENO LEVEL WINDING reel, leather case, $7.00. One pair new Freidman Shelby, Brown Elk 14 inch Hunting boots, size 8, rubber heels, $6.00. One case 500 Western Super-X 16 gauge shells 7½ c. shot, $35.00. Harry Sapp, 615 E. Piper St., Macomb, Illinois. 9-43

MAUSER 8MM, LIGHT WEIGHT D. S. TRIGger, engraved, sling, cheekpiece, Redfield rear, case, very good. 43-170 grain S.P. factory, 32-175 grain H. L., 102 fired cases, 200-8½ primers, bullet seater, neck sizer, expander, Decapper for Ideal No. 10, $125.00, complete. Krag as issued, no sling, very good, $30.00. 200-.30-'06, 28 issue $12.00. 180-.30-'06, 38 issue $13.00. F. J. McMillen, 6 Fort Street, Auburn, N. Y. 9-43

When the Sporting Arms Industry goes to war

Whenever war threatens, immediately the skill, experience and facilities of the makers of sporting arms become available to our Government as an important source for producing military equipment.

As in World War I, so today the industry is proving to be a vital factor in the production of enormous quantities of essential small arms.

We at "Savage" are making Browning Aircraft Machine Guns that have won commendation throughout the world for dependable and devastating fire power. And other guns and military rifles ... in quantities that once seemed impossible.

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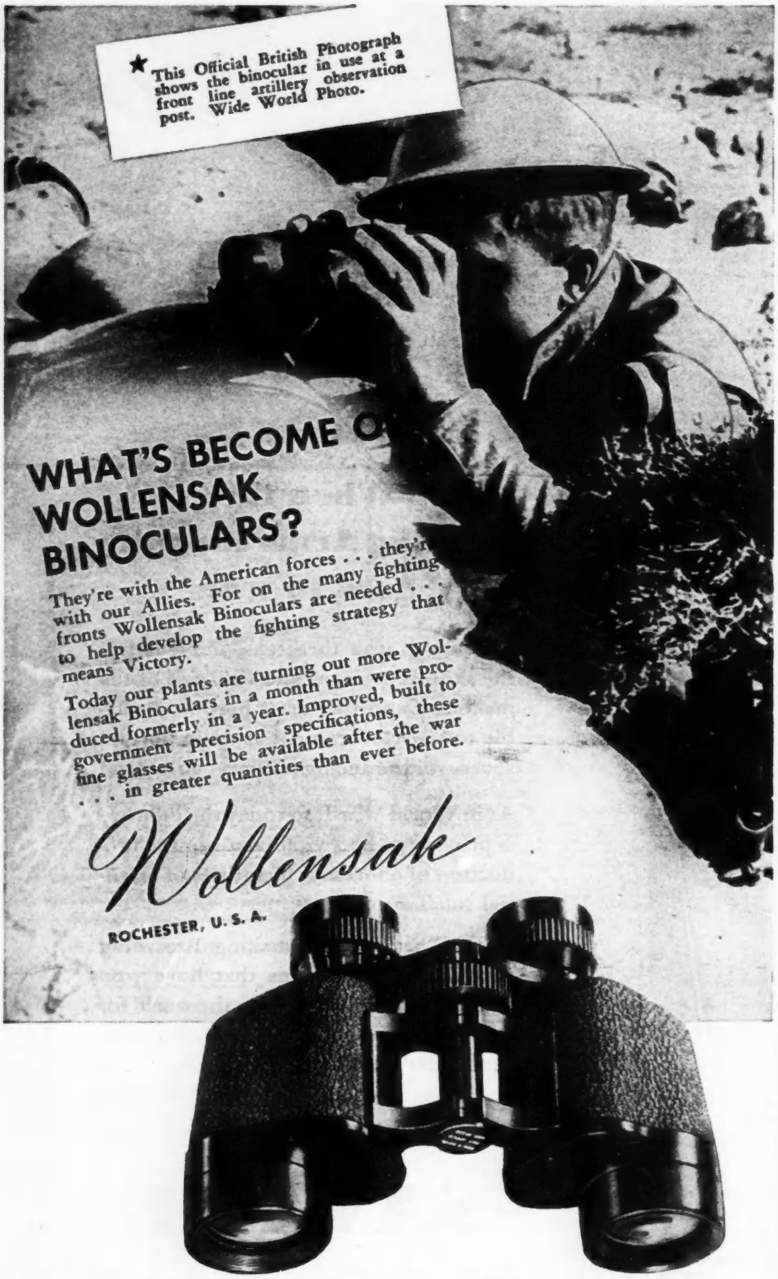
you'll want this rifle

The pre-war pride of big-game hunters throughout the world—the "Savage 99." A streamlined high power rifle with refinements in mechanism that assure unusually quick, positive and safe operation ... a rifle with a consistent record of performance that is extraordinary.



★ This Official British Photograph shows the binocular in use at a front line artillery observation post. Wide World Photo.

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BINOCULARS?

They're with the American forces . . . they'r with our Allies. For on the many fighting fronts Wollensak Binoculars are needed . . . to help develop the fighting strategy that means Victory.

Today our plants are turning out more Wollensak Binoculars in a month than were produced formerly in a year. Improved, built to government precision specifications, these fine glasses will be available after the war . . . in greater quantities than ever before.

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ITHACA SINGLE BARREL TRAP GUN, GRADE 4, ventilated rib, beavertail fore-end, 32 inch full choke, auto, ejector, perfect condition, $95.00. Public Sport Shops, R-64, 13 S. 16th St., Philadelphia, Pa. 9-43

REMINGTON PUMP, MODEL 10, 12 GAUGE, 32 inch barrel, never shot, $50.00, or 30 inch ribbed $60.00. Both, full choke, excellent. Very good pocket watches, binoculars, field glasses, telescopes—one 3 inch. Paul Schweer, Donnellson, Iowa. 9-43

LATE REMINGTON 37, SWEENEY TRIGGER, excellent in and out, includes Lyman Targetspot 10X, $125.00 cash. James Pedroni, Salinas, Calif. 9-43

.32 CALIBER SAVAGE AUTOMATIC PISTOL, $20.00. New .32 automatic Colt pistol, never been shot, $30.00. John Sarcka, Oakland, N. J. 9-43

WINCHESTER 12 MAGNUM, MATTED RIB, Poly Choke with hundred, 3 inch fives, $125.00. Parker VHE 20 gauge, two sets barrels bored skeet and IC MC respectively, single trigger, with six boxes shells, $265.00. Remington .35 Gamemaster with 100 cartridges, $80.00. L. W. Secor, 1102 N. Charles St., Baltimore (1), Md. 9-43

FOR SALE: ONE WINCHESTER MODEL-12, 28 gauge pump, cylinder bore, beautiful pattern twenty to thirty yards, excellent to perfect, $55.00. Forty-five boxes fresh Peters, equal amount 6, 7½, and 9 at $2.00 per box. Will sell separately. Judson M. Kneece, 513 Columbia Drive, Davis Islands, Tampa, 6, Florida. 9-43

WESLEY RICHARDS HIGHEST GRADE double 12-28", modified and full, 6½, 14½ x 1⅝ x 2¾, single trigger, ejectors, beautiful circassian straight stock, gold initial plate, $495.00. Cost $1200.00, perfect outside and in. H. J. Ferry, Longmeadow, Mass. 9-43

$60 WINCHESTER 54, .30-'06, EXCELLENT INside, good out, 130 cartridges, $30.00. Automatic, 45 Government reissue, no pitting, 400 cartridges, all cartridges extra. Dr. Lyon, DeWitt, Iowa. 9-43

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650 ROUNDS, BOX AND BROKEN LOTS FRESH commercial non-corrosive rifle and pistol ammunition. 600 rounds corrosive. Stamp list. WANT—Remington Model 4, .22 or .32 RF rifle; Springfield M-1922 action; electric outboard motor; outdoor magazines prior to 1915. J. G. Leonard, Box 311, Atlanta, Georgia. 9-43

COLT OFFICER'S TARGET MODEL REVOLVER .38 caliber, 6 inch heavy barrel, perfect, $85.00. Colt Ace .22 caliber auto. pistol, perfect, $87.50. Luger Auto. pistols, 3¾ inch barrel, caliber 9mm., excellent condition, $40.00. Colt Officer's Model revolver .32-6 inch, target sights, like new, $75.00. Public Sport Shops, R-64, 13 S. 16th St., Phila. Pa. 9-43

SMITH & WESSON .38 SPECIAL MILITARY and Police, good, $42.50. Colt Officer's Model, .38 Special, 4½ inch barrel, perfect, $75.00. Colt .45 revolver, very good, $39.50. Colt .25 auto, excellent (new model), $30.00. Colt .25, very good, $25.00. Colt .32 automatic, excellent to perfect, $35.00. Hi-Standard, perfect, Model A, 4½ inch barrel, in factory box, $55.00. Smith & Wesson Military and Police .38 Special, 6 inch barrel, excellent, $50.00. Woodsman, excellent mechanically and inside, good outside, $44.50. Mauser automatic .25 caliber, excellent in, very good outside, $33.00. S. Doppelt, 363 Shepard Road, Mansfield, Ohio. 9-43

HENSOLDT TELGON 8 X 30 BINOCULAR, optically perfect, outside worn on edges, with case, $50.00. W-1 Pacific sight for Model 70 Winchester, never used, $4.00. Heiser hand-carved shoulder holster for Officer's Model, excellent, $4.50. One Wilson full length resizer for .30-30, as new $5.00. Weaver 344 with S3 mount, good condition, $5.00. Ivan Olson, 710 N. 7th St., Manitowoc, Wis. 9-43

WINCHESTER RIFLE, .33 CALIBER, NEW condition, shot only to set sights, 35 smokeless soft point cartridges, $75.00. Dr. C. A. Pfafflin, 445 Bankers Trust Bldg., Indianapolis, Ind. 9-43

FOR SALE—ONE .30 WINCHESTER CARBINE, selected stock, perfect, 40 rounds ammunition, $50.00. One Officer's Model Colt, 7½" standard barrel, excellent, 50 rounds ammunition, $60.00. One .45-70 Springfield, perfect, 20 rounds ammunition, $12.00, Rifleman, $1.20 Year. J. K. Shearer, Mattawana, Pa. 9-43

SELL—SPRINGFIELD .30-'06 NATIONAL Match, 1,342,710, C stock, strap, target, extra bolt and rough inlet Bishop stock, perfect, never fired since receipt DCM. First M.O. $80.00 for outfit. L. H. Amrine, 2925 W. Harrison St., Chicago (12), Ill. 9-43

WINCHESTER 1895, .30-'06, GOOD, LYMAN 38, $35.00. 1905 Ross, .303 Sporter, good, 60 shells, scope, $35.00. Winchester 12, 20, 28 inch full, excellent, with Redhead leather case, $65.00. Lt. Bernard Valentine, 910 East Washington, Boise, Idaho. 9-43

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23 D SAVAGE HORNET, FACTORY GREASE, sling, 138 factory cartridges, $50.00 cash. Bill Roberts, Newport, Tenn. 9-43

WINCHESTER MODEL 21, 16 GAUGE, DOUBLE barrel shotgun, 28 inch, full and modified, selective ejection, brand new, $111.00. Winchester Model 21, 12 gauge, double barrel shotgun, automatic ejectors, 30 inch, full and modified, brand new, $94.35. Savage repeating rifles, Model 99EG, caliber .303 and .250-3000, brand new, priced at $65.00 each. Stevens .22, .410 Over and Under Rifle-Shotgun, Tenite stock, $19.50, brand new. Public Sport Shops, R-64, 13 S. 16th St., Phila., Pa. 9-43

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52 H.B. 52 WINCHESTER, 15 POWER WINchester-Litschert scope, size 40 shooting coat, 500 Long Rifles, all excellent, $110.00. John W. Hartley, 227 N. Third St., Tipp City, Ohio. 9-43

S. & W. .32-6" TARGET, 200 CARTRIDGES, excellent, $40.00. Colt .45 commercial, V.G., $55.00. Colt .45 U. S. auto, excellent, $55.00. Some Government .45 ACP ammunition. Almon Williams, Berea, Ohio. 9-43

.380 COLT AUTOMATIC, PERFECT, HOLSTER, $32.50. .32 Savage Automatic, very good, holster, $26.50. 12 gauge Browning, full choke, perfect, $68.00. 20 gauge Remington Model 11, full choke, perfect, $68.00. .22 Savage N.R.A. Target Rifle, good, $27.50. Percussion shotguns, $9.00. H. O. Murphey, 2421 "B" Street, Lincoln, Nebraska. 9-43

GRIFFIN & HOWE .30-'06, ZEISS ZIELKLEIN 2¼, good $200.00. Savage .30-30, 99 G, excellent, $50.00. S. & W. 1917, .45, good, $45.00. E. R. Wiseman, 321-7th Ave., Troy, New York. 9-43

.30 NEWTON, NOSKE SCOPE, EMPTIES (110 new) loads, reloads, $70.00. S. F. Skidmore, Neshanic Station, N. J. 9-43

WINCHESTER 54, SWIFT, EXCELLENT IN, very good out, Weaver 29S in B mounts, sling, case, 78 rounds, 26 empties, $105.00. O.M.T. .22 perfect in, excellent out. King Red front, white outline rear, one sheep, one russet holster, 1000 Expert L.R.'s, $78.00. Marlin 37, excellent in, good out, 400 Hi-Speed hollow point L.R.'s, $24.50. Herbert Straate, Waukon, Iowa. 9-43

54-'06, LYMAN 48 VERY GOOD, BOX 180 GR. br. pt. cartridges, 38 handloads 170 & 110 gr., makings 90 more, $75.00. Webley Air Pistol Mark I-22 very good, holster, 1300 pellets, $15.00. T. H. Spoor, 55 Park Ave., Poughkeepsie, N. Y. 9-43

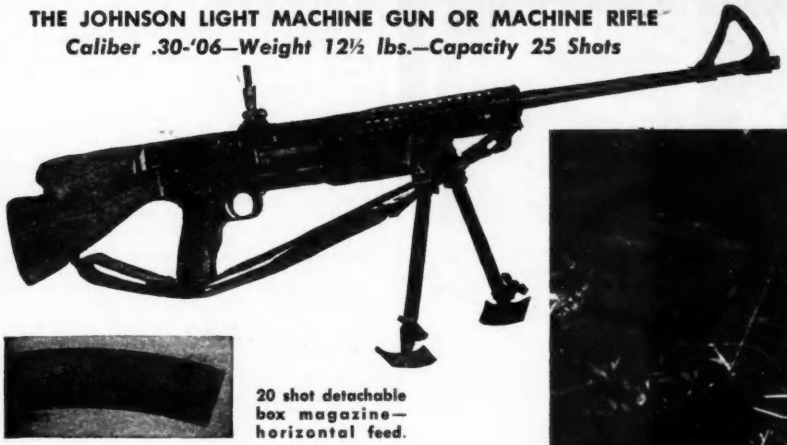
EXCELLENT LATE MODEL 52 WINCHESTER H. B. with 15X Super Targetspot, includes some extras, $150.00. Robert Thomson, Lake George, N. Y. 9-43

JOHNSON AUTOMATICS

INCORPORATED

THE JOHNSON LIGHT MACHINE GUN OR MACHINE RIFLE

Caliber .30-'06—Weight 12½ lbs.—Capacity 25 Shots



20 shot detachable box magazine—horizontal feed.

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A Paramarine and his Johnson L.M.G.

Both Ready for Action!

FOR SALE—WINCHESTER HI-WALL .45-70, 26 inch No. 4 barrel, single-set trigger, custom Burl cheekpiece stock, scope blocks, tang rear, 77 front, sling, very good except minor barrel pits; very good rifling and accuracy, weight 11¾ lbs., $40.00. Stevens No. 47 on No. 44½ action, .22 Long Rifle caliber, 28 inch No. 3 barrel, outside good to very good, inside excellent, minute of angle accuracy, single-set trigger, scope blocks, original Scheutzen type stock and tang and front sights, weight 10½ lbs., $45.00. Winchester Hi-Wall .32-40, action No. 105484, 30 inch No. 3 barrel, double-set trigger, excellent inside and out, except some blue off and wood shows some wear, original sights and wood, $45.00. Ballard action, single trigger, good, $15.00. Stevens 44½ action, single trigger, good, $17.50. Sharps Borchardt .45-70, wood and barrel poor, action very good and tight, excellent for Lovell, $25.00. Gerald Cross, Lathrop, Missouri. 9-43

IVER-JOHNSON .22 SEALED EIGHT REVOLver, hand-tooled holster and belt, very good, $40.00 P. Michael, Camp Holy Cross, Canon City, Colo. 9-43

PRACTICALLY NEW AND PERFECT WINchester 63 automatic with 344 Weaver, B mounts, extra magazine, 250 rounds, $75.00. Practically new and perfect Remington 11A, 12 gauge, 28" modified automatic, with 100 shells, $75.00. Frank Yarborough, 914 Main, Columbia, S. C. 9-43

FOR SALE—MILITARY STEREO 6 X 30 BINOCulars, strap, case and compass, excellent, need cleaning, $55.00. Western Field .22 automatic, 3 clips, 329 Weaver, sling, very good, $25.00. Roy E. Knight, Connorsville, Ind. 9-43

$1.00, GOVERNMENT LEATHER HOLSTERS for Automatic pistols, slightly used. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa. 9-43

COLT NEW SERVICE .45, 7½", PERFECT except blue worn on back strap, Sam Browne belt and holster hand-carved by S. D. Myers, must be seen to be appreciated, belt cost, $35.00. No. 4 Ideal reloading tool .45 Colt, 2 boxes shells, outfit, $85.00. Winchester 74, Short, Weaver 3-29, 500 shells, perfect, $50.00. Savage 99G .250, with .410 shotgun barrel, 36 shells, perfect, $70.00. Savage 99 .303, 26 inch octagon barrel, solid frame, Lyman peep, 9 boxes shells, perfect, $65.00. Mauser 8mm., barrel cut to 24, also forearm to sporting length, Redfield peep, very good in, good out, 200 shells, $45.00. Savage 99A .303, excellent, $52.50. Winchester Model 12-12-30, full, perfect, $52.50. Jennings .45 caliber muzzle loader, good, $10.00. Win. Mod. 12-12-30, full, perfect, $55.00. Money orders. C. E. Shurrier, Green, Kansas. 9-43

FOR SALE—TELL FREE PISTOL, EXCELLENT, extras, $125.00. S. A. Greene, 5806 Sierra St., Cincinnati, Ohio. 9-43

.45-70 SPRINGFIELD, GOOD, $3.00. .32 P. P. Colt, good, $25.00. .45 S. & W. barrel, good, $3.00. .22 Woodsman barrel, good, $3.00. .22 P. P. barrel, fair, $1.00. Springfield Service, good, $40.00. Springfield Sporter, good $60.00. Hi-Standard, Model B, excellent, $45.00. 4 pound Army blanket, $4.00. Charles McCue, 127 Grove St., Morrisville, Pa. 9-43

.38 SHOOTING MASTER, OUTSIDE GOOD, INside excellent, $60.00 F.O.B. WANT—clips for Hi-Standard "E" and 52 Winchester. Bill Jordan, Box 4097, New Orleans, La. 9-43

FOR SALE—1 ROCK ISLAND SPRINGFIELD No. 369345, Type C Stock, excellent in and out, with 30 rounds of ammo., $75.00. 1 Philadelphia grade A, Ansley H. Fox, 32 inch, full and full Krupp Fluid Steel barrels, good in, almost good out, 2 boxes of shells, $75.00. Would like to trade 3 boxes of .45 commercial auto. cartridges for 12 gauge shotgun shells. Prefer light loads 7 to No. 9 shot. W. L. Stambough, 1211 El Paso St., Plainview, Texas. 9-43

FOR SALE—LYMAN TARGETSPOT, 10X, ¼ inch Click Mount, excellent, $55.00. Colt .380 Automatic, black rubber grips, very good, $27.50. Colt .25 Automatic, reblued, plastic grips, good out, barrel poor, $10.00. M.O. only, please. Robert Franck, 1323-25th Ave., Rock Island, Illinois. 9-43

12 GAUGE SAVAGE, MODEL 430, OVER AND Under, improved cylinder and modified, 26 inch barrels, non-selective single trigger, excellent, $48.00. Harry R. Sapp, 615 E. Piper St., Macomb, Illinois. 9-43

FOR SALE—COLT NEW SERVICE TARGET .45 caliber, 7½" inch barrel, perfect, loading tool cartridges, $100.00. Mrs. Nellie B. Leavitt, Bradford, Vermont. 9-43

$6.95, SPRINGFIELD CARBINE RIFLE, CALIber .45-70, slightly used, limited supply. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa. 9-43

BIG NEW LIST—ODD LOT AMMUNITION. Single Shot Rifles suitable for Hornet, Lovell, etc. conversion. Rare Sharps Rifles and Ammunition. 10% discount to N. R. A. members. Send 6¢ in stamps. Paul Ratliff, N4912 Market, Spokane, Wash. tf

WINCHESTER MODEL 12-12 GAUGE WITH Poly Choke, 100 heavy loads No. 6 shot, $80.00. Winchester .63-20"-.22 automatic rifle. Lyman peep, 300-L.R. cartridges, Hi-Speed, very good, $50.00. Harvey L. Rumaner, 520 Beatty St., Syracuse, N. Y. 9-43

FOR SALE—WINCHESTER A5 SCOPE AND mounts. M70 Hornet barrel, some pits. .32-20 Colt S.A. barrel and cylinder. .220 Swift and .38 Special cases. Stamp for prices. A. J. Bennett, 1210 Central Avenue, Louisville, 8, Kentucky. 9-43

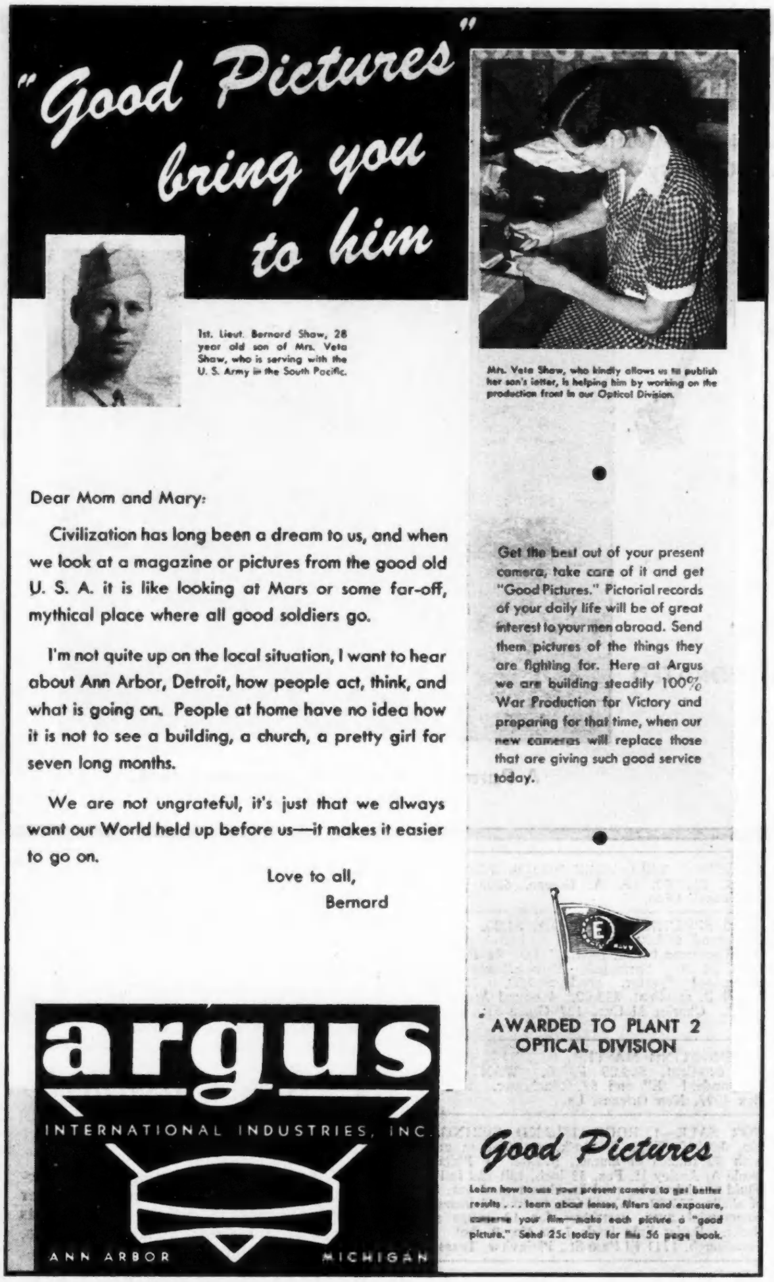
New Classified Rates!

As previously announced and effective with the August issue, the rate for all classified advertising is ten cents per word, including name and address, with a minimum charge of $1.50.

Under existing conditions it is no longer possible for the Association to continue the special member's rate of eight cents per word, originally established for N. R. A. member's personal advertisements.

The present volume and scope of classified advertising makes it impossible to draw the line between personal and non-personal ads and we believe that the fair arrangement is to charge a uniform rate as is the custom with other publications. Rising publication costs make it advisable to establish this rate at ten cents per word in order to prevent loss to the magazine.

In order to further streamline the Arms Chest to meet present demands, the "Member's Exchange" and "Trading Post" classifications are discontinued and all ads are classified by subject only.



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1st. Lieut. Bernord Shaw, 28 year old son of Mrs. Veta Shaw, who is serving with the U. S. Army in the South Pacific.

Mrs. Veta Shaw, who kindly allows us to publish her son's letter, is helping him by working on the production front in our Optical Division.

Dear Mom and Mary:

Civilization has long been a dream to us, and when we look at a magazine or pictures from the good old U. S. A. it is like looking at Mars or some far-off, mythical place where all good soldiers go.

I'm not quite up on the local situation, I want to hear about Ann Arbor, Detroit, how people act, think, and what is going on. People at home have no idea how it is not to see a building, a church, a pretty girl for seven long months.

We are not ungrateful, it's just that we always want our World held up before us—it makes it easier to go on.

Love to all,
Bernard

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LYMAN 8X TARGETSPOT, $65.00; WINCHESTER 52 Standard 49420B, $65.00, S.&W. K32, Lyman mould and tools, 500 old factory ammunition, 300 cases, 300 primers, $100.00, all the above excellent to perfect. Parker 12, VH, F&F, good, $50.00. No trades. T. W. Simester, West Bend, Wisconsin. 9-43

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PERFECT WINCHESTER 70 TARGET MODEL, .220 Swift, Bishop Deluxe stock, sling, 440 Weaver, B Mounts, no receiver sight, base for 77 front, 156 cartridges, 80 empties fired less 200 shots, $175.00; Winchester 21" double 12 gauge 28 inches, modified and full, double ivory sights, 3 inch chambers, very good, 150 Magnum shells 4¼-1⅝-5C and 4C mixed, $85.00; cartridges; 100-.30-40-220 S.P. Kleanbore, $15.00; 100-.45-70-405 S.P. Kleanbore, $15.00; 100-.45-70-405 lead black, $10.00; 50-.32 Winchester S.L., $2.50; 100-.25-20 S.S. black; 50 new primed cases lot $7.50; 200-25-20 Winchester new primed cases, $7.50; 100-11mm. Mauser black, $15.00; 200 late F.A. .30-'06 cartridges 172 B.T. perfect, $15.00; 100 .38 Colt auto. cartridges old type, $4.00; 60-.40-70 Sharps straight cartridges. Paper patch bullets, perfect, $12.00; empty .45 A.C.P., one cent each. WANTED—Lyman full length, resizing dies perfect, .44-40, .32-20. Also reloading tool .32-20. J. W. Varner, P. O. Box 281, Scranton, 1, Pa. 9-43

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.45 COLT AUTOMATIC, NATIONAL MATCH, excellent, $75.00. .45 Colt automatic, good, new bbl., Franzite pearl grips, $60.00; .45 Colt automatic, good, $55.00; .45 automatic, fair exterior, good mechanically, $45.00; .380 Colt automatic, excellent, $30.00; .380 Ortgies, fair to good, $20.00; .25 Colt automatic, good, $25.00; .38 Spec. S.&W. 2" bbl., very good, $45.00; .38 Spec. S.&W. 6" bbl., very good, $50.00; .44 Spec. S.&W. Triple Lock, target sights, 6" bbl., excellent, $65.00; .44-40 Colt S.A. 7" bbl., brand new, $50.00; .45 Colt Bisley S.A. 7" bbl., stag grips, good, $50.00; .41 Colt Lightning D.A. Frontier, fair, $10.00; .30 Luger, very good, original Berlin holster, $60.00; 9mm. Luger, good, $45.00; .32 Colt Police Positive, excellent, $35.00; For complete list write Elliott Gillespie, 4816 South Aldrich Ave., Minneapolis, 9, Minn. 9-43

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FOR SALE—.300 SAVAGE SUPER SPORTER number 14000, Gold inlaid receiver, Damaskeened bolt, Circassian walnut stock, extra clip, Marble peep sight, folding leaf, bead front with 70 rounds ammunition, excellent condition, $160.00. Detailed information may be obtained from Savage Arms Company. J. R. Tucker, 8719 Granby Street, Norfolk, Virginia. 9-43

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WINCHESTER .270, CHEEKPIECE STOCK, 48 and 29S, $85.00. Winchester .351, $70.00. Cartridges both. Fox beavertail 12, $50.00. Remington pump 12, $40.00. 3A Kodak Special, $35.00. All excellent, detail description, stamp. Arthur Jaquith, Rumney New Hampshire. 9-43

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WINCHESTER 64-.30-30, 24", 40 CARTRIDGES, perfect, $65.00. Winchester 71, .348 caliber Deluxe, 24", 35 cartridges, excellent, $75.00. Harvey L. Rumaner, 520 Beattie Street, Syracuse, N. Y. 9-43

COLT .38 O.M. KING SIGHTS, ADAPTER, holster, 200 ammunition, excellent, $70.00; Colt .32 auto., holster, 60 ammunition, $30.00; Walnut Hill H.B., $35.00; Lyman 485, $8.50; 57W, $3.50; 330S Weaver, $27.50. Ortgies .25 auto, holster, good. $12.50. Vic Breneman, Hershey, Pa. 9-43

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WINCHESTER 70, .270 CALIBER, LYMAN Alaskan scope, Griffin & Howe. Quick detachable mount, sling 80 rounds ammunition, excellent condition, complete, $195.00. B.&L. scope and stand. Arthur Jackson, 345 Adelphi Street, Brooklyn, New York. 9-43

B.&M. MODEL 26 TOOL COMPLETE WITH BULlet seaters for .38 Special .45 automatic, .22 Hornet, and .30-'06, $25.00. Two cavity Hensley No. 39 mold, $4.50. B.&M. 359165 mold, $4.00. H.R. S.A. Sportsman .22 perfect, $35.00. Ralph Feld, Edison, Ohio. 9-43

WINCHESTER 92, .25-20 50 ROUNDS, GOOD, $27.50; H.&R. .22 Special, good in, fair out, $12.50; fine Manton 12 dbl. perc., cracked stock, good, $12.50; another unmarked needs one nipple, repaired stock, $6.00; Weaver 333 scope no mounts, good, $8.50; 40 rounds .380 Colt, $2.00; 50 rounds Western .32-20 Spl., $3.00. Orville Petersen, Exira, Iowa. 9-43

REMINGTON .22 AUTO. RIFLE 24A, 250 CARtridges, good, $25.00. Remington 12 auto., Cutts, V.G., $60.00. Remington MK III signal pistol, poor, $4.00. Pr. balance scales in Mahog. box, $7.00. 5 swords Revolutionary 1812-1840-1860-1880, $30.00. Roy Vail, Warwick, New York. 9-43

SPRINGFIELD SPORTER 1296507, EXCELLENT, $75.00. National Match Springfield 1261216, very good, $55.00. Winchester 69A .22 caliber, excellent with 1000 .22 L.R., $30.00. Colt .45 automatic National Match barrel special factory honed action, excellent, $65.00. 500 Boattail .30-'06, 6¢. 150 .45 auto., $7.50. Pacific reloading tool, speed dies, .38 Special; Ideal lubricator .356 and .357 dies, Ideal powder measure; two Ideal bullet molds complete—158 grain. Colt and 155 grain wadcutter, .38 Special, all $35.00. Two inch Starrett micrometer and one inch adapter, $7.50. C. H. Hinds, 114 E. 7th, Topeka, Kansas. 9-43

COLT .45 GOVERNMENT MODEL, COMMERcial, perfect, $55.00. Colt Army Special, .38 Special 4" barrel, excellent, $40.00. Winchester M75, excellent, 500 rds. .22 L. R. ammunition, $40.00. Springfield action (1903) reheattreated receiver, nickel steel bolt, $25.00. Kleanbore .38 Super auto., ammunition, $2.25 box. Bos'n J. C. Berger, Sachuest Pt. USNTS, Newport, R. I. 9-43

REMINGTON 8MM. FRENCH LEBEL. HANDhoned action, bolt handle altered, trigger reshaped. Very good. 18 rounds ammunition, $35.00. H. Carmichael, 395 Houston, Coalinga, California. 9-43

REMINGTON 37, REMINGTON SIGHTS, CARney sling, factory selected for accuracy. 65mm. B. &L. scope, 20 and 27 power eyepieces, aluminum offset stand. Scope and stand new, rifle excellent. "Imperial coat, 44 left hand, used twice. 1000 Leader (1942). Outfit $200.00. Engraved Johnson-Ballard, heavy barrel, very accurate, shot less 1000 times, blocks, no iron, 1000 Leader, excellent, $100.00. .22 Stevens 44½ Scheutzen, double set triggers, very accurate "EX" barrel, never used, blocks only, 1000 Leader, $75.00. .22 Stevens original Walnut Hill, double set engraved action, new match barrel, very accurate, excellent, $50.00. Hornet on Hi-Wall double set action, very fancy woods, blocks only, very good, $50.00. .32-40 Win. Hi-Wall, single set, peep and globe, semi-fancy woods, Swiss butt, excellent, $35.00. Winchester Hi-Wall, action only, pin bushed for Hornet, $17.50. .22 BSA action and stock, good blue. $15.00. Farquharson action in white, $15.00. Cen. fire Win. Lo-Wall action and stock only, $7.50. .38-55 Win. full Oct. 30" barrel only, 200 paper patched cartridges, spotless in, very good out, $17.50. .44 S.&W. Russian, 5" and 8" barrels, spotless in, blue holster worn. Ammunition extra, $50.00. .22 Hi-Standard E. new Heiser, excellent, $60.00. Winchester No. 12-16 Skeet, Cutts, beavertail. Extra ribbed barrel assembly with Weaver chokes. Two tubes each, excellent, $115.00. Win. No. 12-28, Cutts, two tubes, excellent. Six boxes 2⅞"-7½, $75.00. L.C. Smith No. 3E, 12-32 full and full, spotless in, very good out, $75.00. L.C. Smith Skeet, 12-26, ejectors, spotless in, very good out, $60.00. Browning 16-28, full, 2¾" chambers, excellent, $65.00. Ithaca "Victory" Trap, spotless in, V.G. out, $45.00. Limited amount ammunition for each extra. No post cards answered. Stamp for description in detail. H. A. Haskell, Brattleboro, Vermont. 9-43

PERFECT .30-'06 ENFIELD SPORTER. NEW barrel, honed action, Bishop Montecarlo stock, Pacific EN-2 rear, recoil pad, Army sling, 150 rounds, $60.00. .38 S.&W. Special M.P. Franzite grips, excellent to perfect, 100 rounds, $44.00. Colt .45 automatic, perfect in and out, Franzite grips, 100 rounds, $57.50. .38-40 Colt Bisley, excellent to perfect, stag grips, 30 rounds, $45.00. J. L. Shull, Tyler, Texas. 9-43

WARNING to Hiro-Hitler

★ REDFIELD Junior Scope Mounts – favorite of American sportsmen – is now standard equipment on American Snipers' rifles. That's bad news for Hiro-hitler...and good news for woodchucks, deer and other game. No REDFIELD sights will be available for civilian use until the war is over. However, we CAN send you the Redfield shooting guide and sight catalog for your sporting library. It's good reading – and it's FREE. Send for your copy today.

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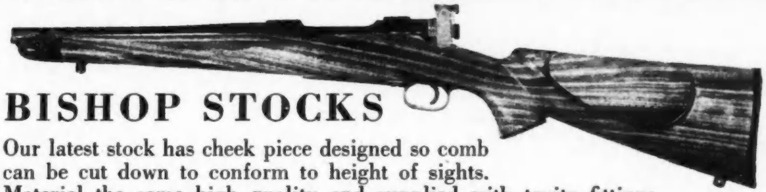

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.22 BABY HAMMERLESS, NICKEL, GOOD COLlectors item, $12.00. New, Johnson and Haven Automatic Arms, $4.00, 150 .22 Long Rifles $1.75. Master Sgt. Kerksis, Prisoner of War Camp, Opelika, Alabama. 9-43

S.&W. MILITARY .44 SPL., 5", BLUED, FIXED sights, excellent in and out, $52.50 with 250 Remington factory Kleanbore cartridges. Leslie Lindahl, Central City, Nebraska. 9-43

.38-40 WINCHESTER CARBINE, 50 CARtridges, perfect, $45.00. M55, .25-35 Winchester, excellent, 26 cartridges, case, $45.00. M99 Savage 22 Hi-Power, V.G., 20 cartridges, $35.00. Daniel Morrison, Caribou, Maine. 9-43

FINE .22 CALIBER RIFLES WITH AMMUNItion. 52 Winchester Sporter, $75.00. 72 Winchester, $25.00. Lee Enfield Hornet, $55.00. B.S.A. with Hulbeck 8 Groove barrel, $85.00. 39A Marlin, 29S scope, $55.00. Many others. Large list 10¢. All guaranteed. Money refund if not pleased. George Brullesauer, 3957 Castleman, St. Louis 10, Missouri. 9-43

FOR SALE—141 REMINGTON .32 SPECIAL. Sling rings, never shot, $69.95. 10 boxes Corelokt cartridges, canvas case, complete, $90.00. F. E. Britton, Marlboro, N. H. 9-43

NEW SAVAGE MODEL 219, .25-20 RIFLE, $19.10. Super X, Soft Point cartridges $2.50 a box. Jim Craton, Life Member, Davenport, Iowa. 9-43

.22 NIEDNER ON KRAG ACTION, LOADING tools, 50 cases, 60 bullets, 200 primers, powder, very good $48. Shooting glove $1. 100 ampere Square D switch $10. Alvin Shaver, R.F.D. 1, Bellaire, Ohio. 9-43

REMINGTON 12 GAUGE PUMP NO. 10 V.G., $43.00. Remington 12 gauge Hammerless, cyl. V.G., $14.00. Perfect Colt .32 Auto. holster, $34.00. Stevens 16 gauge Hammerless, double, case, ex., $32.00. Binoculars, 6 x 30, case, V.G., $45.00. Knuckleduster .22, V.G., $17.50. .32 Long, revolver, perfect, $13.50. 10 foot fan, 32 V. new, $14.00. Many cartridges. .22 Ladysmith, 3½ inch small parts missing, $12.50. TRADE—500 new 12 gauge duck loads for 20 gauge pump or double, skeet preferred. Inquiries invited. Floyd Amel, Shawano, Wisconsin. 9-43

L. C. SMITH. 12. DOUBLE 30", 2E GRADE. Beaver forend, pistol grip, selective single trigger, automatic ejectors. A beautiful piece. $175. Browning Auto. 12. rib. full. excellent. $70.00. .32 and .380 Colt automatic pistol, good $30.00 each. Rem. 24. 22 Auto. very good. $25.00. Ernie Breyer, Fargo, North Dakota. 9-43

STEVENS WALNUT HILL, 418 EXCELLENT, drilled for scope blocks, peep rear, 500 L.R. $30.00. Winchester 8X scope, with blocks, click mounts, good, $20.00. Fox C Grade, 12-30 modified, full, selective ejectors, pad, very good, 50 Nitro Express $80.00. S.&W., M&P .38 Special, 5 in. blue, good; quick draw holster, 100 Wadcutters. $50.00. F. A. Baker, Donnelly, Minn. 9-43

SEDGLEY .30-06, EXCELLENT, $80.00. HI-Standard D 4½", excellent in, $50.00. Model 12 skeet 16 ga. Cutts, straight grip, excellent $95.00. Fulton 12 ga. 28" very good in $28.00. Winchester 73, .32-20, beautiful condition, checkered. Marble red reflector, hood $32.00. Marlin 1893 .32-40 good, needs firing pin, shells, $15.00 or trade cap ball revolver. H&R .32 nickeled $8.00. H.&R. .22 Long, $8.00. Capt. P. R. Haskell, Proving Center, Aberdeen Proving Ground, Maryland. 9-43

WINCHESTERS, 1873, 32, AMU. FAIR, $30. 32-40 S. S. fitted with Malcomb long scope, very accurate, good in, out fair, 100 ammo. $45. Savage 22 Long Rifle rim, good, $22.50. U.S. 1863 Remington and Springfield never fired, each $15.00. Several Colts in case B. & C. Several Kentuckeys, also long guns for decoration only. Flint arrow points. Mention wants for details. E. F. Randolph, Box 412, Staten Island, 8, N. Y. 9-43

BROWNING (AMERICAN) 20 AUTO, 26" IMproved cylinder, factory grease, $68.65, 6 boxes ammunition extra. Browning (Belgium) 16 auto, 26" cylinder, perfect, $70.00, 8 boxes ammunition extra. Springfield Custom Sporter, 22", .30-'06, Redfield 70SH rear, excellent, $70.00. Savage 23AA, Weaver 29-S, perfect, $45.00. Savage 99 Featherweight, .250-3000, excellent in, VG out, peep rear, 80 rounds ammunition, $40.00. .22 Varminter on Krag action and stock, very good, $35.00. Stamped addressed envelope for details. Claude Roderick, Monett, Missouri. 9-43

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COLT REPEATING RIFLE, .32-20, FULL length magazine, 36" barrel, bore excellent, otherwise good, $30.00. Winchester Model 1873, .22 Short, serviceable, $25.00. Robert Haelig, Boundbrook, N. J. 9-43

COLT .45 AUTOMATICS. GOOD GOVERNMENT model $45. Excellent commercial $60. Thomas Nolan, 154-33 12th Road, Whitestone, New York. 9-43

HEAVY BARREL 52, LATE MODEL, EXCELLENT, 77, Vaver extension rear. Marksman stock, $80.00. 54 Win. Hornet, blocks, sling, 48W, excellent $75.00. NO TRADES. John M. Love, 146 Seymour Street, Watertown, N. Y. 9-43

2 GOVT. COLT .45 AUTOS, REBLUED, ONE perfect in, $50.00; one excellent, with embossed holster, $45.00. Two boxes FA, extra clip with each. VG H & R Premier .32 walnut grips, cartridges, $10.00. H. Gould, Alfred, N. Y. 9-43

ZEISS 8X30 "DELTRINTEM" BINOCULAR, standard weight, central focus, perfect, case, $125.00; .22 Colt Ace, excellent, extra magazine $75.00; genuine 7.65mm. Luger, grip safety, 4½" barrel, good, 50 cartridges $50.00; .38 Colt D.A. Frontier, 5½", new barrel and cylinder, factory overhauled, 50 cartridges $35.00; issue Krag, bore poor to fair, outside good $20.00. Ammunition: 1000-.38 auto., $37.50; 120-.30-'06 issue '42, $9.00; 115 .30-'06 F.A. 35, $8.60; 120 .30-'06 FA27, $9.00; 60 .30-'06 National Match '39, $6.00. No checks please. E. R. Thomson, 23 Pinckney Street, Greenville, S. C. 9-43

219 SAVAGE .22 HORNET IN EXCELLENT CONDITION with Weaver scope and 75 shells, $26.50. Remington .25-20 pump action, repeater, in excellent condition with Mossberg scope and 4½ boxes ammunition, $30.00. Winchester Model 11, 12 gauge automatic, very good condition with 5 boxes of Nitro Express and 9 boxes of light loads, $60.00. .30-40 Krag in excellent condition with Bishop Sporter stock. Redfield receiver rear and ivory bead front sights, with three boxes factory ammunition, $45.00. 1917 Model .45 Colt Army revolver in excellent condition with 116 shells, $40.00. Lester Melvin, Stronghurst, Illinois. 9-43

D.H.E. PARKER-12 F&F-32, VERY GOOD, $175.00. Smith, Specialty-12-32 F&M. E.S.S.T., barrel perfect, otherwise very good, $125.00. E. F. Wright, Scappoose, Oregon. 9-43

NEAR PERFECT K-22, WESSON ADAPTOR grip, $75.00. 500 Kleanbore L.R., extra. Amos C. Wells, Route 4, Albany, Oregon. 9-43

COLT OFFICIAL POLICE .22, 6" BARREL, EMbedded cylinder, excellent in, v.g. out, $40.00. Colt .32 automatic v.g., $22.50. Winchester 69, Weaver 329, sling, checkered, excellent, $25.00. Remodeled Enfield, 26" barrel, receiver rear, remodeled issue front, checkered, toe of stock chipped, v.g., $35.00. W. F. Brokate, 867 So. Emerson, Denver, Colorado. 9-43

500-12 GAUGE WINCHESTER MAGNUM 3". 1⅝ oz. No. 2-C, trade for equal value 12 gauge standard loads. TRADE—.25-35 and .219 cases or primers for .22 caliber bullets. Sisk express. Sell fine English drop block K-Hornet with dies, loads. Tell action 2R Lovell, 54 Winchester 2 R Lovell, new Hi-side, improved 22 Hi-Power, deluxe stock. Springfield action, Noske 4X, .220 Varminter, new 20 gauge deluxe engraved, imported double. Stamp for particulars and prices. .22 L.R. heavy 30" match barrel, Winchester action, tested only, not stocked. $30.00, cartridges extra. English Newman Gurdia Sibl camera, 2¼ x 3¼ Cooke lens, deluxe case, full equipped, $50.00. New Remington 30S action and stock, no barrel, $50.00. Slide rest, fits 8" bench lathes, $50.00. B.&L. draw tube spotter, $30.00. Hervey Lovell, 3345 N. Gale, Indianapolis, Ind. 9-43

M37 REMINGTON STOCK BY LINDEN, BEAUTIFUL wood and checkering. Fore-arm 1¼" shorter than factory stock. Receiver tang must be shortened ¼" to fit. $21.00, no trades. R. T. Roark, 2320 Frankfort Ave., Louisville, Kentucky. 9-43

COLT .45 COMMERCIAL AUTOMATIC, SHOWS blueing wear; with a $35.00 Sedgley Single Shot .22 caliber conversion unit; both $75.00. Unfired .38 Official Police Colt, $50.00. Officer's Model .38 heavy barrel, shows use mechanically, blue fine, $50.00. Colt .45 Frontier, 5½ inch reblued, $35.00. Colt .38 Police Positive Special with a $10.00 pair of carved walnut grips, $40.00. Excellent .32 Colt automatic, $30.00. Good .22 Police Positive Target, $45.00. .32 S.&W. Hammerless, nickel and ivory, or pearl, $25.00. Warren Baker, 5106 Liberty Ave., Pittsburgh, Pa. 9-43

SPRINGFIELD M2 ACTION COMPLETE, PERFECT, $30.00. Robert Haelig, Boundbrook, N. J. 9-43

REISING .22 L.R. AUTOMATIC TARGET PISTOL, practically new, $5.00. Root Side Hammer Colt .31 caliber revolver round, decorated, cylinder, nice condition, $25.00. Pin fire revolver, not perfect, $3.00. Remington .41 caliber double pistol, good, shows rust, $5.00. .38 caliber Harrington and Richardson revolver double action, $15.00. New, a beauty, .44 Colt Army revolver 1860 original and good order. $15.00. 12 gauge English D.B. gun by Mortimer. $15.00, good. J. G. Dillin, Media, Pa. 9-43

.22 SAVAGE HI-POWER, SPRINGFIELD ACTION, C. C. Johnson barrel, scope blocks, no sights, 60 handloads and complete Pacific reloading tools with Ideal powder measure, barrel excellent, stock fair, $60.00. .22 Hornet, Winchester Hi-Wall action C. C. Johnson barrel, scope blocks, no sights, good, $30.00. B. C. Stickler, 514 Washington, Quincy, Illinois. 9-43

SMITH & WESSON MAGNUM, EXCELLENT plus, 6" barrel, 50 cartridges, $125.00. Smith & Wesson .38-44 Outdoorsman, thumb-rest stocks, wide non-slip hammer spur, undercut front sight, excellent, 50 cartridges, $80.00. Colt Super .38, appearance about V.G. otherwise perfect, King undercut front, 100 cartridges, $67.50. With Cramer 3 cavity mould, Pacific dies and shell holder, $85.00. K-22, excellent plus, 500 Long Rifle cartridges, $80.00. Same V.G. to excellent in appearance, otherwise perfect, with 500 cartridges, $70.00. Smith & Wesson .22 Olympic, V.G. out, otherwise perfect, extra pair grips, 500 .22 Long Rifle Cartridges, $35.00. High Standard Model E, perfect, $70.00. Latest Hi-Standard E, 4½, King Semi-Rib rear, undercut front, excellent, with 500 cartridges, $85.00. J. P. Sauer & Son, automatic pistol, caliber .32 A.C.P., V.G., pocket model, 50 cartridges, $30.00. Mauser pocket auto., reblued, good, 50 cartridges, $30.00. Government Model .45 auto., arched housing, bore perfect, otherwise V.G., 2 extra magazines, 100 cartridges, $50.00. Colt and Smith & Wesson, 1917, about V.G., 100 cartridges, $55.00 each. Colt O.M.T., 6" H.B., outside, V.G., otherwise perfect, $60.00. Robert Haelig, Boundbrook, N. J. 9-43

K-22, EXCELLENT, $60.00. WINCHESTER 75T, perfect, $45.00. Ithaca 37R, 16 gauge, 50 shells, new, $70.00. Colt Army .38 Special, 4" barrel, perfect, $45.00. 200 .38 Super (old lot) $9.00. New Aristocrat 10X coat and glove size 40, $10.00. WANTED—Ace, .22 O.M.T. Fred Gombash, 196 Fourth Street, Passaic, New Jersey. 9-43

COLT SUPER .38, EXCELLENT, $49.00. WIN M94 .30-30 carbine, 12 cartridges, excellent, $40.00. Roland Noyes, 21 Cabot St., Salem, Mass. 9-43

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SALE .45-70 SPRINGFIELD, FINE, AND 250 cartridges, $25.00. Miles O. Noll, 25 N. 7th St., Lewisburg, Pa. 9-43

WINCHESTER MODEL 70, .375 H & H MAGnum, 48 receiver sight, sling and recoil pad, perfect $100.00. 16 boxes cartridges $3.50 per box. B. A. Walter, 613 Taylor St., Davenport, Iowa. 9-43

ITHACA MODEL 37 T, 30 INCH VENTILATED, excellent, $125.00. Winchester model 12—30 inch ventilated, excellent $125.00. Lefever single 32 inch ventilated, excellent $37.50. Ithaca No. 5, 30 inch F & M., excellent, indicators $125. Ithaca No. 4, 30 in, F. & M. $125. Ithaca field, very good $35. Dan Lefever 32 inch full and 26 inch cyl. bbls., S. S. trigger, ejectors, indicator elaborately engraved excellent $125. R. Robinson 28 inch F & M, S S trigger and ejectors, 6½ lbs, engraved V.G. $125. Parker A.H.E. 32 inch ven., S S trigger and ejectors Beaver fore-end very good to excellent $450. Parker A.H.E., 32 inch Ven., and 26 inch skeet bbls., beaver fore-end ss trigger and ejectors very good $650. Parker D. H., 32 inch full and mod., 8 lbs, excellent $100. Parker V.H. 28 in F.&M., excellent $95. Parker V.H. 28 in F&M, good $65. Greener F.H. 50, ejectors, 30 in F&M, excellent $200. Schilling 28 inch, F&M engraved, ejectors, 6½ lbs, a beauty, excellent $250. Hoffman O&U 32 in., ventilated, SS trigger, ejectors, excellent all hand made in U. S. $450.. Remington O&U, 28 inch skeet ventilated, SS trigger, ejectors, Premier grade new gun $525. Rem. automatic premier grade, Cutts comp., very good $125. Winchester mod. 12 skeet grade, cutts comp. perfect $105. Winchester standard trap, ribbed bbl, 30 inch full, excellent $85. Win 52 sporter, reflector red bead, ivory inlay, perfect $125. Rem. 37 target cal .22. excellent $75. Marlin 36 deluxe .32 spl, new $55. Extra bbls., Rem. automatic 12 ga. ribbed 28 full, $28. 16 ga 26 inch, mod. cyl and full $20 each excellent. Fox 12 ga 28 in F&M all the above guns are 12 ga $20. H and R Line throwing gun, and life saving kit complete in trunk case, new, $68. Every piece guaranteed, satisfaction or full refund. trades are on same basis. Hershey's, Orville, Ohio. 9-43

FOR SALE—WINCHESTER H.B. 52 SPEED lock. $60.00. Super Targetspot, $75.00. Remington Model 81-.35 caliber, shells, $95.00, all excellent. George Lewis, Alexandria, Minnesota. 9-43

WINCHESTER 97 TOURNAMENT 12, EXCELlent. $55.00. Marlin repeater 12 Trap, very good, $45.00. Swedish automatic 12, very good, $45.00. L. C. Smith engraved 12 Trap, excellent, $55.00. Sauer double 12 engraved, excellent, $90.00. Martin Samuelson, 38 Park Avenue, Amityville, N. Y. 9-43

SPRINGFIELD SPORTER, 48 LYMAN, NEVER fired, $75.00. Same fired few times, $65.00. Remington Automatic, 20 gauge, 28 full, case, shells, very good, $95.00. Argus 20 x 55 spotting scope never used, stand, $65.00. Zeiss 5X binoculars, individual focus, $25.00. Will offer good deal on any of the above for few small pistol primers. J. B. Pitchford, 300 Delhi St., Bossier City, La. 9-43

HOBERT BROTHERS, EIGHT HOUR BATTERY charger, good, cost $237.00, sell, $100.00. Bisley .38 Target, 5½ barrel, like new, $75.00. WANT—.357 Magnum. H. D. Powers, Dinuba, Calif. 9-43

CUSTOM 7MM. MAUSER, NEAR PERFECT, 160 Kleanbore, soft point, exceptional value, $265.00. Write for description. Consider Varmint rifle as part payment. Prefer Roberts or Hornet. Jess Carr, 955 N. 17th, Salem, Oregon. 9-43

GENUINE, NON-MILITARY, SPORTING Mauser, 8mm., 24 inch barrel, ramp front, sporting rear, line engraving, C. P. stock, excellent in, V.G. out, 60 fresh ammo, $75.00 or B. & L., Zeiss or Hensoldt 6 x 30 binocular. One box .32 Special, 2-250's, 3-410's, 1000-.22 LR for equal value .300 Savage ammo, 16 gauge ammo, Redfield Olympic front sight, fishing boots size 6. Fair to all, no trades before 15th. Still making few custom, Protektor Model, zipper gun cases, shooting mitts, see Sept. 1942 Dope Bag. Basil Tuller, Galeton, Pa. 9-43

COMPONENTS: 1000 FOR:—BULL * SWIFT $95.00, DCM * SPORTER $63.00, new barrel $20.00, "Service" Ace $66.00, .38 OM-HBT * $55.00, Super .38 C.A., $45.00, B. & L. 65mm. $78.00, .300 70 * Target $150.00. * Tools &/or dies available. Zeiss 8 x 40 Monocular $74.00. .32 S. & W. Hammerless $28.00. WANT—stamp. evaluation Crown Greener. Squier Jones, Palo Alto, Calif. 9-43

SELL—IVER JOHNSON .22 SEALED 8 DOUBLE action revolver, target sights, finger rest, perfect except slight scratch on cylinder and minor imperfection in blue; with 2000 fresh Hi-speed Kleanbore Shorts, $60.00. WANT—for cash, small pistol and small rifle primers. Charles T. Wright, Shelton, Washington. 9-43

REMINGTON SPORTSMAN, SKEET MODEL 11, 12X26 Skeet, ventilated, excellent, 50 shells, $100.00. Remington 31A, 12X30 full, perfect, 50 shells, $65.00. Remington 31A, 20X28 modified, V.G., outside, otherwise excellent, 50 shells, $50.00. Wards Western Field (Lefever Nitro Special) 20X28 modified and full, Beavertail, perfect, 50 shells, $45.00. Ithaca Grade with hammer indicators, 12X30, full and full, ejectors, perfect, 50 shells, $70.00. Ansley H. Box (Philadelphia), AE, ejectors, 12X30 modified and full, excellent, 50 shells, $100.00. Ithaca 37, 12X30 full, perfect, 50 shells, $65.00. Belgian Browning Engraved Auto., 12 gauge plain barrel, excellent, choice of several lengths and chokes, $100.00, with hollow rib, $115.00, including 50 shells. L. C. Smith 10X32 High Grade, engraved, excellent (Crown Steel Barrels) full and full, 50 shells, $95.00. Winchester Model 12, 12X30 full, plain rib, appearance good, otherwise excellent, 50 shells, $60.00. L. C. Smith Field Grade, 20X26, ejectors, appearance about V.G., otherwise excellent, 50 shells, $65.00. J. P. Sauer & Son, 12X30, modified and full, appearance good or better, otherwise perfect, high grade gun, 50 shells, $125.00. Savage Utility Guns, 12, 16 or 20 gauge, with .22 Hornet, no ammunition, $24.85. Robert Haelig, Boundbrook, N. J. 9-43

52 SLOWLOCK, $45.00, COLT .25, FAIR, $20.00. WANT—SS outfit with plenty of components, good SS .22 rifles, and 12-20 power telescopic sight. Donald Callar, N.T.S., Richmond, Va. 9-43

WINCHESTER MODEL 65 .218 BEE, STITH mounts, Weaver 330 scope, cross-hairs, perfect, 9¾ boxes factory ammunition (50 per box) $135.00 for outfit. Also 2 Springfields, '06's (No. 1) Number 608857 new barrel, Lyman 48, good trigger, speed action, C type stock, consistent winner in Texas matches, $75.00. No. 2, Number 95257, new Star Gauge barrel, National Match bolt, correct head space, new Lyman 48, new C type stock, sling, very accurate, $80.00. Will sell 3 boxes commercial '06 ammunition, pre-war prices with each rifle. WANT—Model 70-.257. Will pay cash. Also 4½ inch Colt or Hi-Standard. Both must be excellent. S. P. Coffey, 5424 Broadway, San Antonio, Texas. 9-43

EXCELLENT S. & W. 5 INCH MAGNUM, STAG grips, $135.00, WANT M70-'06 with hunting scope or Super Grade in exchange. Excellent Fecker 8X, ¾, click mounts, $50.00. Perfect H. S. .32 S. & W. Long dies and shell holder for Pacific, $12.00. WANT—star lubricator. Hans Lafrenz, 1702 West Tonto, Phoenix, Arizona. 9-43

SELL—MODEL 52 WINCHESTER, 70 HORnet, .70-06, Winchester 70 Super .257 Roberts, Savage 99G., .22 Hi-Power, Savage 23A .22. Perfect to excellent. Many other guns and rifles. Specify your needs. Prices on request. Ralph Overly, Ephrata, Pa. 9-43

FOR SALE—EAGLE LUGER PRE-WAR 30, 4½", 3 magazines, 130 cartridges, like new, $75.00. Woodsman, 6½", 500 cartridges, perfect, $55.00. .30-30 Winchester carbine, 2 boxes new, $55.00. Hi-Side action, rebushed, blued, new stock, $25.00. WANTED—New M70, .250-3000 all-weather Alaskan. Glenn Thomas R.R. #1 Camden, Ohio. 9-43

WINCHESTER 54, .220 SWIFT, TARGET GRADE, Lyman 48, 17A, 80 fresh Kleanbore cartridges (or will supply new primed cases, primers, powder and bullets), excellent, $100.00. Smith & Wesson, .357 Magnum, 6½" barrel, excellent, 50 cartridges, $120.00. Colt Bisley 5½", .337 Magnum, new barrel & cylinder, otherwise V.G., exceptionally tight, 50 cartridges, $75.00. Colt Single action, 7½" barrel, .32-20, reblued, excellent, 50 cartridges, $45.00. Colt 41 double action rod ejector, Nickel, 4½" barrel, V.G. 100 cartridges, $30.00. Winchester 97 Trap grade, 12X30 full, good, 50 shells, $38.00. Burgess Repeating Shotgun, twelve gauge, two barrels, 30" full and 26" improved cylinder, good, $25.00. Colt Army Special, .32-20, 4 in., fair, 50 cartridges, $25.00. Smith & Wesson M.&P., 6½", .38 Spl. (fixed sights), latest model, excellent, 50 cartridges, $55.00. Lyman 20X Super Targetspot, excellent, $100.00. 1918 Trench knife, flat double edge blade, sharp brass knuckles, perfect, $6.00. All ammunition offered is fresh, noncorrosive. Robert Haelig, Boundbrook, N. J. 9-43

WINCHESTER 21 DUCK GUN, 12 GAUGE SElected pistol grip stock and beavertail, selective single trigger, selective ejection, perfect with half case fresh Magnum loads, $160.00. Remington 12 gauge, 32TC ventilated trap gun 30 inch full and full, selective single trigger, selective ejection, perfect, $155.00. Winchester 12 gauge Model 12, trap gun, 30 inch full ventilated, pistol grip, perfect, $100.00. Winchester 20 gauge Model 12 Skeet gun, 26 inch, solid rib, WS No. 1 choke, excellent, with new $15.00 leather case, $60.00. 12 gauge Remington Sportsman, 26 inch ventilated skeet barrel only, perfect, $30.00. Thirty inch modified, ditto, $30.00. Type EE binoculars and case, excellent, $35.00. Air Guide 4X field glasses, perfect, $10.00. Money orders only. TRADE—sealed case 3 inch .410, sixes or 3 inch 12 gauge fives or sixes for 12 gauge 2¾ inch high velocity fives or sixes; WANT—perfect Hensoldt or Bausch and Lomb 7 x 50 Individual. G. T. Dean, 748 Rockefeller Bldg., Cleveland, 13, Ohio. 9-43

CATALOG NO. 22 DESCRIBING OVER 1500 bargains 25¢. Modern and antique firearms, accessories, war relics, binoculars. 10X46 Bausch, $88.00. 6X30 Crown $60.00. 5X imported scope sights, mounts, $12.50. 40X telescope $28.00. New .300 Savage 1920, Lyman peep, cartridges, $80.00. New .22 L.R. Savage 23-AA, Lyman peep, $40.00. Another, good, $29.00. .32-40 Ballard Union Hill No. 9, excellent, $40.00. Brand new .45-70 Springfield $18.50. Ammunition $2.00 box. Bandolier .30-'06, $5.00. .45 A.C.P., $6.00 per hundred. Many Kentucky rifles, C.&B. revolvers, automatics. Frontiers. .45 Colt 1917 $54.00. .45 Auto., $58.00. .32 Colt auto., $37.00. .32 Savage $32.00. Lugers $48.00 and $56.00. .38 Special H.&P. 6", nickel, pearl, excellent, $56.00. John Smith, Rambler Avenue, Runnemede, New Jersey. 9-43

S.&W., K-22, PERFECT, 500 ROUNDS .22 LONG Rifle ammunition, wool lined case and leather holster. $69.00. Walter P. Miesen, 832 Montgomery Ave., Narberth, Pa. 9-43

.30-40 KRAG, BEAUTIFUL REBUILT ISSUE, 22 inch barrel, excellent, 40 rounds ammo, $40.00. Colt .32 Auto nearly excellent, box ammo, $30.00. S. & W. .32 revolver, 4 inch barrel, approximately 275 rounds ammo, fair outside, barrel spotted inside. $27.50. .30 caliber Luger, excellent condition for genuine DWM, $50.00. .45 caliber Single Action Colt, excellent except holster wear at tip of barrel and back strap, Heiser holster, 3 boxes new ammo., wood grips, good trigger squeeze, $60.00. .380 genuine German Ortgies, excellent, $27.00. 39A Marlin, Weaver 330, T mounts, 200 rounds .22 Long Rifle, excellent, $75.00. Stevens 44, .22 caliber, Bishop stock, scope blocks, excellent, 200 rounds Long Rifle, $45.00. Stevens 44, .25 rim fire caliber, almost excellent, 200 rounds ammo, scope blocks attached, $25.00. Will accept in trade on any of above—.22 caliber 46 grain full patch bullets, loading tools .219 Zipper, Starrett 0-1 inch; 1 inch-2 inch mike; Starrett parallel vises; excellent muzzle loading Kentucky squirrel rifle; .32-22 S. & W. 6 or 8 inch barrel; or what have you? Gunsmithing tools, etc. or cash. Will not sell any of items until 15th of month when all answers have been received. Bob Brownell, Montezuma, Iowa. 9-43

COLT OFFICER'S MODEL TARGET REVOLVER. .38 caliber 6" heavy barrel, perfect. Sanderson Custom grips, $85.00. 2 boxes 158 grain Kleanbore, $3.00 a box. Colt Woodsman 4½" Patridge sights, Sanderson grips, perfect, fancy new. Hand carved, Heiser holster, $70.00. Money order only. Max Rovick, 337 51st Avenue, Bellwood, Illinois. 9-43

SWISS MARTINI .30-'06 FREE TYPE, INTERNAtional rifle by Rudolph Hammerli, Lyman 48 rear sight and telescope blocks; excellent condition. $150.00. Kirkwood Brothers, Inc., Gun Shop, 23 Elm Street, Boston, Mass., Established 1874. 9-43

SELL—.45 COLT ARMY AUTOMATIC, $42.50. 100 commercial cartridges, $6.00. Thomas Nolan, 15433 Twelfth Road, Whitestone, New York. 9-43

STANDARD 52 WINCHESTER, 8X FECKER Scope, 500 rounds $90.00. .348 Winchester Deluxe, case, 20 rounds, $75.00. 7.65 Luger, 125 rounds, $45.00. .35 Winchester, 28 rounds, $40.00. .25 Colt, 50 rounds, $20.00. .22 Savage Sporter, 5X Weaver, 500 rounds, $45.00. Clarence Schanke, 520 So. Spring, Sioux Falls, South Dakota. 9-43

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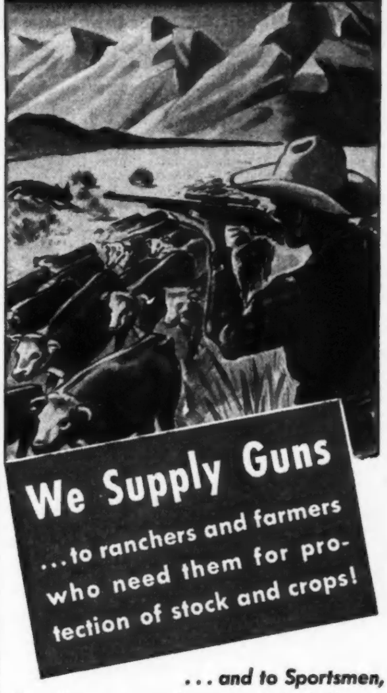

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WINCHESTER MODEL 12 SKEET MODEL, 20X26, latest Poly Choke, excellent, 50 shells, $95.00. Robert Haelig, Boundbrook, N. J. 9-43

FOR SALE—.219 ZIPPER, MODEL 64 WINchester, with 29S Weaver scope, Jostam cheek pad and 14½ boxes Super-X and super-speed 56 grain cartridges. Gun perfect. Fired 10 times. Everything for $100.00. Richard Larsen, Yorkville, Illinois. 9-43

FOR SALE—KRAG SPORTER, SPLENDIDLY restocked. Perfect in, very good to excellent out. Redfield and Lyman sights. Fifty Softnose cartridges, twenty issue, $55.00. Ted Werner, Nevada, Missouri. 9-43

95 WINCHESTER .35, TANG PEEP, GOOD, 100 cartridges, $50.00. C. H. Fox, 223 Somerset Street, Toledo, Ohio. 9-43

REMINGTON M11 AUTOMATIC, 12-28, FULL, excellent, $75.00. Stevens Ranger Double, .410 x 26, very good, $30.00. Winchester 1910SL Automatic, .401, Lyman tang rear, excellent, $70.00. Remington Enfield Sporter, .303 British Redfield receiver, sling, P. G. stock, very good, $60.00. Marlin M39 Lever, .22 L.R., very good, $35.00. Winchester M55, Takedown, .32 Special, sling, swivels, very good, $55.00. Colt O.M.T. .38 Special, heavy barrel, 6 inch, excellent, $65.00. S. & W. M. & P. Target .38 Special, 6 inch barrel, honed action, very good, $55.00. Colt Army Special .32-20 6 inch barrel, ivory franzite grips, excellent, $42.00. Many others. List. Stamp. Ed Howe, Coopers Mills, Maine. 9-43

COLT POLICE POSITIVE .22 W.R.F., GOOD, $23.00; .32 S.&W. nickeled, spur trigger, out good, in fair, $12.00; .22 Winchester L.R. relined, excellent, out good, $25.00; DeVry 16mm. movie projector, cased, excellent, $35.00; take cash, Winchester 75, good glasses or. P. H. Bell, 3552 Fairmount Blvd., Cleveland Heights, Ohio. 9-43

FOR SALE—ENFIELD, CUSTOM JOB, HIGH comb, wide forearm, 2 barrel band front sights; King gold bead reflector, Redfield globe, Remington 37 rear sight, ¼" click, Merit shutter peep. 2" 10 shot groups with lead loads at 100 yards, excellent, $65.00. Sheepskin guncase (Brauer Bros.) for above gun, $5.50. 120 lead loads. 500 late F.A. empties primed and unprimed, some fired once. 600, 9½ Remington primers, 1000 Ideal 311413 cast bullets, B.&M. dies and extras; bullet puller, sizer .308-311, Marbles and Tri-Pack rods, Wesnitzer 30 caliber pocket primer cleaner, O'Hare Springfield sight micrometer, loading blocks. DuPont powder 2400-4064. Stock for .30-'06 Winchester 54, $5.00. 13X eye piece for 65mm. B.&L., new, $9.50. B.&L. 6X30 binoculars with case. One outside ocular lens cracked. Does not show in field of view, $35.00. Marble O.&U., .22-410, 15" barrels, folding stock, $16.50. Gasoline stove, auto. cookkit mod. 209, $9.00. 45, .25 automatic Colt shells, $1.50. No swaps, will ship express collect. Paul E. Thurman, Caseyville, Illinois. 9-43

CASH WITH ORDER, OR ⅓ CASH, BALANCE COD, inspection at express office. Varminter, Mauser 1916 Berlin Gew. Sedgley .220 Swift barrel. Stoeger stock with cheekpiece, altered bolt, scope blocks. Pacific shell holder. 2 resizing dies. Pacific type neck die and bullet seating die. 175 cases. Case, 200-50 grain bullets, 200 No. 8½ primers, perfect, $150.00. .257 Remington 30S, sling, QD swivels, 330 Weaver mounted, 40 factory loads, 117 grain, perfect, $135.00. .218 Bee, Winchester 92. New Winchester Bee barrel, action reblued, ramp front, regular rear, half magazine, 100 loads, $40.00. .22 Marlin model 97. New Winchester barrel, reblued. 500 Remington Shorts, H.S., $24.00. .22 caliber Haenel air rifle, model 1 D.R.P., perfect, 1000 bullets, 12 darts, $16.00. .32 Remington R.F. model 4, good in, reblued, 290 loads, $11.00. 16 gauge Winchester model 12-26 inch barrel, very good in, reblued, full, $45.00. 6 boxes shells H.S. extra, $9.00. 265 Winchester 2½ W. primers, $2.50. .38 Special S.&W., M.&P., nickel or chromium. White Franzite grips, 6 inch, excellent, $37.50. F. W. Caauwe, Norfolk, Nebr. 9-43

OREGON MYRTLEWOOD GUNSTOCK BLANKS. "The Most Beautiful Wood That Grows." Prices $3.00 to $10.00. Catalogue upon request. Beaumont's, The House of Myrtlewood, Marshfield, Oregon. 8-44

SELL—WOLLENSAK 20 POWER SCOPE, $12.00; 6 boxes 10 gauge heavies or trade .30-30, .22 L.R., .30-'06. J. DeSmidt, Route No. 1, Sheboygan, Wisconsin. 9-43

1 MODEL 12, 12 GAUGE VENTILATED RIB with Poly Choke, excellent, $90.00. 1 pair 6X25 B.&L., $30.00. George Portman, Wausau, Wisc. 9-43

ITHACA FIELD 16-26 F.&F., BEAVERTAIL, S.T., ejectors, pad, perfect, $95.00. Browning 16, case, perfect, $85.00. 8X Unertl 1¼", case, perfect, $85.00. Binoculars 6X30 Schutz perfect, $75.00. 6X30 B.&L. E.E., very good, $42.50. Eastman 620 F 4.5 supermatic, extras, perfect, $50.00. Money orders. Stamp please. R. E. Willard, 1736 Summerdale Ave. Rear, Chicago, Illinois. 9-43

.45 GOV'T MODEL COLT AUTO., HOLSTER, 80 cartridges, excellent, $55.00. Eddystone Enfield, checkered walnut stock, recoil pad, sling QD swivels, Pacific sights, blue dull, inside excellent, 180 cartridges, $85.00. William Schultz, 343 Jackson Street, Ripon, Wisconsin. 9-43

SALE OR TRADE

FOR SALE—5 X 7 VIEW CAMERA, BAUSCH & Lomb Optical Company lens and shutter, (needs new bulb release) with three double plate holders and film adapter, price $16.00. WANT—12 gauge shotgun shells any size shot, black or smokeless powder. Richard A. Kunkel, Judson, North Dakota. 9-43

SELL OR TRADE—ENFIELD .30-'06 SPORTER, 330 Weaver, Pacific, selected Bishop stock, speedlock, cocks opening, rod, 100 cartridges, $120.00. 320 clean 1918 .30-'06, $19.20. 330 M-1 .30-'06, $26.40. WANT—.45 auto., Woodsman, or? Felix Phillips, 1508 Clover, Amarillo, Texas. 9-43

WINCHESTER PUMP MODEL 42, .410-28, 50 rounds, $49.50. Winchester Model 74, .22 Short automatic, perfect, 200 rounds, $29.75. Winchester Model 1903, .22 automatic, fair, 60 rounds, $12.50. Belgian Browning automatic, 12-30 ribbed barrel, engraved receiver, Poly Choke, very good, $92.50. Colt Woodsman .22 automatic, 4½ inch, perfect, 200 rounds, $50.00. First money order. WANT—Good High Wall or Stevens 44½ action or complete rifle with stock and action good, barrel poor. H. F. Purdy, 3515 Dearborn Blvd., Sioux City, Iowa. 9-43

EXCELLENT PLUS, GOVERNMENT .45 AUTOmatic, arched housing, holster, $65.00 or trade. WANT—Excellent plus 7.63 Mauser Automatic, holster, ammunition; N. M. .45 Automatic—pay difference; .22-.45 conversion. Lt. Carson Williams, 3440 South MacGregor, Houston, Texas. 9-43

SELL—PERFECT S. & W. 6 INCH MAGNUM, $110.00. TRADE—3000 No. 6½ or No. 2½ primers for 8½ or 9½. WANT—Zeiss 8X scope. W. A. Windas, Police Dep't., Palos Verdes Estates, Calif. 9-43

WILL TRADE OR SELL—YANKEE TOOL, .30-40, .30-'06, .38 Spec. dies, $10.00. .30-40, .32-20, .30-'06 empties, 1¢ each. B.&M. loading tool complete for .30-'06 and .38 Spec., $20.00. Lyman .30-'06 resizing die, $2.00. Hammond portable typewriter, little use, needs attention, $50.00. WANTED—Ideal blocks No. 311413, 308329, 308334. Remington 8½, Winchester 115 primers. Ideal No. 5 powder measure. Potter "A" electric furnace. Kit gun. Lawrence Mzache, Ripon, Wisc. 9-43

BIG NEW LIST NO. 405 OF CARTRIDGE COLlectors' items 20¢. List of handloaded shotgun shells 10¢. List of empty shotgun shells, wads and primers 10¢. WANT—H. & R. heavy breech, 10 gauge single, must be 36 inch, full choke and in fine condition. Charles Shattuck, Cherry Creek, N. Y. 9-43

FOR SALE: PACIFIC EN 3 SIGHT, $4.50. 2 doz. goose decoys, $10.00 doz. 12 gauge Winchester lever, new Lefever barrel, details or will trade. WANT—High grade .410 double D.T., must be very good or better, case 12 gauge shells No. 6 shot. Krag and ammunition, reasonable. 110 grain .30 caliber bullets. E. L. Rogers, Harvard St., Wenatchee, Washington. 9-43

USED MODERN AND ANTIQUE FIRE ARMS, bought, sold and traded. Write me your wants, or what you wish to sell. Do not ship unless notified. Large catalog of fine Arms available, send 25¢ in coin to cover costs, same will be refunded on first order. Trembly Arms, 106 Andover St., Lawrence, Mass. tf

KRAG PARTS, REMINGTON DERRINGER, Colt Bisley, others, Stamp for list. WANT—cheap Krag, cased pistols, cartridges, components, NMNC Primers for .30-30 and Krag. Capt. Greenslade, Life Member, 131 Princess Pass, San Antonio, Texas. 9-43

WANT—EXCELLENT .70-'06, OPEN OR 48; late excellent 52 Sporter, 48, .22 L.R. Sell or Trade: Perfect 70-.300 Magnum, 48, Pacific dies, 215 cartridges, $145.00. Perfect .32 O.M., Pacific dies, mould, 600 cartridges, $100.00. Excellent Marlin 39A, Stith-mounted 29S, $85.00, excellent 75 Sporter, 57, $45.00. .45 SA, 4¾" pitted, no rust, $10.00. .41 derringer, reblued, pitted, $5.00. Will sell 70-.300 only if 70-'06 otherwise secured; also will trade other primers for No. 8½. S. F. Toups, Life Member, Thibodaux, Louisiana. 9-43

FOR SALE OR TRADE: COLT OMT .22 CALIber, excellent with sure grip adapter, heavy leather holster, and sheepskin zipper case; also 100 .22 L. R., sell, $65.00 or trade toward perfect .257 with scope, ammunition, and components. Also want .43 Egyptian ammunition. I will answer all replies. Fred Maurer, Jr., Wadena, Minnesota. 9-43

ACCORDION: SOPRANI 120 BASS, EXCELlent, with case, a beauty, $300.00 cash or trade for M-70 Winchester .270 with Alaskan scope, low mounts, some 130 grain cartridges, or Johnson outboard motor 9.8. 22 H.P. Above must be excellent to perfect, trade Remington M-24 Automatic, excellent and cash, for M-52 Winchester Sporter (latest) with 330 Weaver scope, low mounts. J. B. Wallace, Member, 925 W. Greenfield Ave., Milwaukee, 4, Wisconsin. 9-43

SELL—COLT BISLEY, .401 SPECIAL MAGNUM Cartridge, 5½" perfect, $90.00. Components extra, particulars, stamp. Muzzle resizer .44-40, $1.00, bullet sizing chamber, .358, $1.75. B & M No. 26 bullet seater .44 S. & W. Special, $2.50. Some factory soft point bullets, .32 Special, .351. WANTED—.38 heavy duty or outdoorsman any condition. Ray Thompson, Grand Marais, Minnesota. 9-43

99RS SAVAGE .300, $75.00. .32-20 REMINGTON 25, $40.00, shells extra. Krag carbine, 100 issue shells, $27.50. Ithaca trap 32 inch, 12 gauge F. & F. $75.00. Winchester 97, 12 gauge, 28 inch modified, $45.00, others. WANT—Model E Hi-Standard 6¾, 7mm., 28 gauge shells. N. M. George, Box 206, Riverhead, N. Y. 9-43

FOR SALE OR TRADE—S.&W. .38 SPECIAL M.&P. Target, excellent, $62.50. S.&W. .45, Model 1917, excellent, $45.00. .30 caliber Luger 7", excellent, $45.00. Andrew Spina, 155 William St., Towanda, Pa. 9-43

SELL—EXCELLENT GEBBY VARMINTER, Stoeger stock, Diller barrel, Springfield action, about 10¼ lbs., 300 bullets, 300 primers, 40 cases, $125.00 or with excellent 8 powder scope, Litschert mounts, $160.00. TRADE—117 grain 25 caliber bullets for N.C.N.M. primers 8½, 9½ 115, or 120. B. G. Jenkins, Mt. Horeb, Wisconsin. 9-43

SELL OR TRADE—AMMUNITION 9, 7.65 Luger, 7.63 Mauser, .38 Super, .219 Zipper, good to perfect, for .357 Shooting master and ammunition. Must be excellent or better for South Pacific flying. Lt. A. O. Hudler, Squad. 14-A, Bristolfield, Kingsville, Texas. 9-43

.38 COLT POLICE POSITIVE, 6" BARREL, 2 box shells, brand new condition, $40.00. .44 Smith and Wesson Special 5" barrel, perfect condition, and shells, $60.00. .38 Colt Police Positive, 6" barrel, 3 boxes shells, $40.00. Trade Weaver 29-S scope brand new in factory box, for .22 Long Rifle shells. Trade—7 boxes .35 Winchester 3 boxes .38 Automatic for .22 Long Rifle shells. WANTED—Lyman 10X or 12X or 15X scope Brand new in factory box. Charles Leasure, Jr., 181 W. La. Clede Ave., Youngstown, 7, Ohio. 9-43

TRADE—WINCHESTER 70, SUPER GRADE, .220 Swift, excellent to perfect, for same in .22 Hornet. SELL—Fecker 8 x 1½ inch, excellent to perfect, ¼ min. clicks, $90.00 or accept Alaskan and $25.00. George S. Mitchell, 324 Midland Ave., Wayne, Pa. 9-43

SELL—LATEST H.B. 52 WINCHESTER, 8X Junior Targetspot, click Lyman mounts, comb pad, all perfect, $98.00. Remington .22, slide action, part of barrel & entire receiver factory engraved, octagon barrel, beautiful wood checkered, perfect, cost $129.00, sell $58.00. Remington .30-'06 Enfield, butt shortened 1", excellent, $30.00. English seventeenth century stone crossbow, very good working order, no bowstring, $25.00. Model 40 DeLuxe Winchester, 12 gauge, automatic, Cutts Compensator, new, $75.00. Mossberg .22 automatic, 4X scope, new, $25.00. TRADE—07 Winchester .351, no clip, poor but huntable, for sixty .30-30 noncorrosive cartridges or for 30-30 reloading set with mould & safe empties. Norton Bowler, 100 Fourth Avenue, Warren, Pa. 9-43

COLT-DUMOND, 6" BARREL .32 AUTOMATIC, barrel perfect, outside very good, original barrel, two clips, special sights, $50.00. I'll buy any type sewing machine if price is reasonable, need Singer 22w135. Charles D. Marine, 1517 S. Branson, Marion, Indiana. 9-43

SELL—REMINGTON .50 CALIBER NAVY PIStol, very good, $16.00. 70-7mm. cartridges, O.P. 10 cents each. 400-9mm. Luger cartridges, 5 cents each. WANTED—Loading tools for .375 H&H Magnum. .44-40 Winchester, Model 53 preferred. 16 or 20 gauge double shotgun. Oluf Bearrood, Comstock, Wisconsin. 9-43

FOR SALE—MODEL 70, .270 TILDEN SAFETY, sling, 330C, Stith mount, excellent in, very good out, 60 cartridges, $145.00. Model 141, .35 Remington, 330 Redfield Jr., new, ammunition, $115.00. Model 99 Savage .250, very good out, excellent in, ammunition and 1X Weaver, $95.00. WANTED—Model 12, Skeet grade, with Comp. or Polychoke, 12 gauge. Outboard motors. H. Dale Weeks, Belle Fourche, South Dakota. 9-43

FOR SALE—.25 COLT AUTOMATIC, GOOD. Holster, 200 shells, $27.50. .38 Smith & Wesson Hammerless 4", 125 shells, good, $25.00. 174 rounds .32 S.&W. Kleanbore, $7.00. TRADE—26 Rustless .38 Special for 25, 12 gauge. WANTED—Factory or excellent 6½" Colt Woodsman barrel. Arthur Arnett, Route 2, Albion, Michigan. 9-43

SELL PERFECT WOODSMAN 4½", KING sights barrel weight, Murad grips $80.00. Perfect Remington Short 241, special sights $50.00. WANT—Colt National Match with or without conversion unit. 22 single shot rifle. .22 caliber M-1 Springfield. Nat Breedlove, Valdosta, Georgia. 9-43

EXCELLENT NATIONAL MATCH 45, KING accuracy job, trigger stop, some holster wear, extras, new barrel, used service slide, magazine, 16 used parts, $95.00. Excellent 4½ inch Colt Woodsman. King accuracy job, ventilated rib, reflector front, click rear sight, mercury barrel weight, trigger stop, $85.00. WANT—1942 or '41 Evinrude or Johnson 5hp. Motor. C. Byers, 700 W. 35th St., Austin, Texas. 9-43

COLT REVOLVER, 1917, EXCELLENT, 302 rounds 1917 Remington issue ammo, $50.00, 8 clips included. WANT—Chicago cutters for Handee tool. Bob Brownell, Montezuma, Iowa. 9-43

FOR SALE: GOOD GEW (98) SPORTER, 8MM, 1906 action, 102M rear, Springfield front, blued, good stock, $35.00. Good Mauser action, $15.00. TRADE—500 L.R. Kleanbore and 60-180 grain Silver Tip .30-'06 reloads for issue Mauser. WANT—Standard 52, money-order, stamps. Ernest Rafalske, 185 19th Avenue, North Tonawanda, New York. 9-43

MODEL 37 REMINGTON 00652, EXCELLENT, fired 3000 rounds. Sights, sling, factory machine rest groups, $70.00. Less sights, $60.00. Officer's dress sabre, perfect, $10.00. WANT—Swift cases, Pacific tool and powder scales. Smith H. Lapsley, Box 2420, Tulsa, Oklahoma. 9-43

SELL .351 WINCHESTER AUTOMATIC, 25 shells, inside perfect, outside good, $55.00. TRADE—1000-.45 Colt Automatic No. 9 primers, Springfield Sporter stock, for large rifle primers. Mitchell Miller, c/o Zenith Dredge Co., Waterfront at 13th Ave., W., Duluth, Minnesota. 9-43

FOR SALE: REMINGTON MODEL 32 SKEET gun, raised solid rib, very good, $120.00. Winchester Model 42, .410 full, oil finish, very good, $35.00. WANT—Winchester M-52 heavy barrel. B & L Spotting scope, Parker 28 gauge. James F. Miller, 1006 Ligonier St., Latrobe, Pennsylvania. 9-43

.22 COLT POLICE POSITIVE TARGET, PERfect, $42.00; .22 Marlin Model 39A, Weaver 333 scope, post, reticule, and Albree Twin mounts, perfect, $40.00; .22 Winchester Single Shot, Low Wall relined by Diller, very accurate. Left hand cheek rest curley Walnut stock bolted to receiver, receiver peep, $29.00. Redfield bridge mount for Weaver and Model 70 Winchester, perfect, $8.00. Marble Goss and Lyman 77 for Winchester 52, $14.00. Lyman 48 for Springfield, $8.00. Some Krag and Springfield parts, old Colt and Winchester rifles as relics or for parts. WANT—Lyman Junior Targetspot 6 or 8X. Life Member, E. P. Hinkle, 35 Franklin, Napa, California. 9-43

AMMUNITION—.30-40 KRAG, CLEAN SPLIT necks, .3½ each, perfect, 5¢ each, .30-'06 '18 to 39 with clips 6¢ each. Sporter stocked Krag as issued, $27.00, Springfield, $37.00, will swap Springfield M2 for Remington 37, Winchester 52 target or sporter late model only. No. C.O.D. Stamp please. K. B. Spaulding, 41 Weed Hill Avenue, Springdale, Conn. 9-43

V.G. ENFIELD SPORTER, COMPLETELY REmodeled, 22" barrel, Redfield rear, ramp front, swivels, 28 cartridges, $50.00. WANTED—Late Marlin O&U IC and mod. 16 guage or? Wayne Partee, R #1, Bryan, Ohio. 9-43

SELL OR TRADE—37 ITHACA, 20 GAUGE, sealed factory carton, $60.00. .300 Savage Model 99 EG, factory carton, $60.00. WANTED—Remington auto. 12 gauge, K-22, outdoorsmen, must be excellent. Clyde Gray, Prairie DuSac, Wisconsin. 9-43

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WINCHESTER MODEL 12 TRAP GRADE, EXcellent, $85.00 with sheepskin case. WANTED—Stock for Model 21 Winchester. R. G. Voss, Fremont, Ohio. 9-43

K-22, $65.00. ALSO A 52 WINCHESTER BULL, $100.00, and a heavy barrel 52, $90.00. All very good. WANTED—70 Winchester .30-'06, Alaskan scope. Glenn Wilder, Chardon, Ohio. 9-43

20 GAUGE WINCHESTER 12. BEAUTIFUL burl walnut, straight grip, oiled, stock, new Poly Choke, excellent in, V.G. out, $75.00. Remington-Hepburn Hornet. Johnson relined. High comb, blocks. Bore excellent, outside good or better, 50 factory cartridges, $23.00. Parker Trojan 12, 24 inch, V.G., $55.00. Will consider trade for scope sighted 75 sporter. 300 Hornet empties, 1¢ each. George S. Webb, Science Hill, Kentucky. 9-43

FOR SALE—CUSTOM WINCHESTER MAGNUM Hornet, perfect, components, tools, $65.00 or 7mm. Mauser and cash. Neil Dewey, Union City, Pa. 9-43

ITHACA TWENTY GAUGE, $25.00; MOUNDSville three barrel, 12 gauge .32-40, $55.00. Sauer 9mm. rifle, $55.00, or exchange for prism binoculars. Alden Loring, Owego, N. Y. 9-43

WINCHESTER CARBINE, .32 SPECIAL, PERpect, $40.00. Winchester M61, slide action .22, perfect, $32.00. Long Krag, Lyman 48X, scope blocks, issue and extra stock, excellent, $40.00. Springfield .45-70, Lyman windgage tang peep, excellent, $19.00. Parker GHE, 12 gauge, 26" modified, full, short stock, pad, very good, $100.00. Western Long Range 16 gauge, excellent, $27.00. Can supply ammunition for all, Lyman tool and components for .45-70. Aluminum Cutts Comp. and barrel for M12 Winchester, $30.00. Duralumin G&H double lever mount for Alaskan, new, $22.00. Ammunition for .25-35; .30 Remington; .30-'03; .32 auto.; .32 S.&W.; .32-40; .45-90. Pacific dies for 7mm. and .280. 300 new FA '06 cases @ 3¢. Fired 7mm. cases @ 3¢. Paul E. Boyce, No. Branford, Conn. 9-43

FOR SALE—STEVENS POPE TARGET RIFLE, 8 lbs., 44½ action, Lyman Peep, .32 Ideal caliber, excellent—$60.00 or K-22 Masterpiece. Colt .25 Automatic, good—$20.00. Both for 52 Sporter, latest model or first money order. Jesse G. Ball, Russell, Kansas. 9-43

REMINGTON FIELDMASTER, EQUIPPED Weaver 333, $32.00. Remington Russian 7.62, $22.50. Both very good in, good out. WANTED—Perfect Lyman Super Targetspot. Alvin Badeaux, Thibodaux, Louisiana. 9-43

SMALL S.&W. .22 SWING-OUT REVOLVER, $10.00; Colt Army Special .38-5", good out, excellent in, 200 cartridges, $50.00; Colt .45 Auto., 100 cartridges, holster, good, $50.00; Colt S.A. 44-40, 7½", 100 cartridges, good, $40.00; Colt 1917 Model .45, 5½", 100 cartridges, good, $42.00. Ithaca Field, 12-30", beavertail, pad, 100 shells, like new, $70.00; Super HE Fox, 12-30", pad, 250-3-in. Arrow Express, $110.00; Remington S.S. rifle, .32 R.F., fair to poor, $3.00; 5 boxes, Mauser pistol, hollow point, $11.50; 15 boxes, .35 Winchester, soft point, $2.00 box. WANTED—Remington .32 auto. or slide action rifle. Ray Nelson, Roy, Utah. 9-43

COLT COMMERCIAL, NICKEL, .45 AUTOmatic, very good to excellent. Two extra clips, double clip case and holster. 100 rounds Government issue '35; 100-'40 and 300 Kleanbore metal cased, new, $80.00 complete. WANTED—Winchester 52 Standard or HB complete with sights and sling. Jerry Stephens, McAllen, Texas. 9-43

SALE—NEW .220 SWIFT, SUPER GRADE, sling, sheepskin case, 1000 Kleanbores, Weaver 330 scope, $300.00. Mannlicher 9mm., Lyman peep, perfect, 700 shells, mostly Kleanbore, sheepskin case, $300.00. Remington 241 autoloader, Special grade, Weaver scope, perfect, sheepskin case, Long Rifles, $115.00, Winchester, .401 autoloader, good, 3 magazines, 140 shells, $75.00. Zeiss 7x50 Featherweight binoculars, case, perfect, $250.00. S.&W. .38 Special, nickeled, excellent, holster, 400 Kleanbores, $100.00. Mauser 7.63 Military pistol, perfect, sheepskin case, 500 Kleanbores, $100.00. Two 7.65 Lugers, perfect, 3½ and 6 inch barrels, holsters, 200 shells each, $90.00 each. Weaver 1X, Lee Dot, $35.00. Shotgun shells, 16 gauge, 8's and 9's, $40.00 case. WANTED—New or perfect Winchester 52 Sporter Deluxe, with or without scope, cash. Also want 7.65 Luger shells. F. R. Guy, Box 97, Montgomery, Alabama. 9-43

WANTED: .33 CALIBER WINCHESTER RIFLE in excellent or better condition. TRADE: .270 Silver-Tip ammunition, 130 gr. for same in Winchester Pointed Expanding, new stock. SELL: Model 95 Winchester .35 caliber, receiver sight, perfect inside, very good out, $35:00, shells $2.00 box. P. A. Glaeser, Waconia, Minnesota. 9-43

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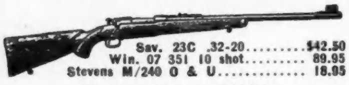

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WINCHESTER 70-.257 WEAVER .303S, STITH mount, Tilden safety, 6 boxes factory shells, $127.50. Ithaca 37-20 gauge, Poly Choke, carrying case, 50 shells, $75.00. Woodsman .22-4½, Heiser holster, trigger shoe, 1000 Peters Police Match $67.50. Winchester 72-.22, Weaver 29S, 500 Kleanbore, $32.50. All excellent. WANTED—.44 Target Bisley, excellent. Trade 1000 Fresh N.M.N.C. No. 1½ for No. 2½. G. A. Staniar, Short Hills, N. J. 9-43

TRADE BROWNING SUPERPOSED LIGHTNING improved cylinder, modified, 26" ventilated rib, single selective trigger, Hawkins pad, half-case shells. WANT—Sweet-Sixteen and shells. N. L. Geary, Stover, Missouri. 9-43

W-52, STANDARD, L-48, SPEEDLOCK, V.G., $55.00. M.T. Woodsman, 6", V.G., $65.00. Woodsman 6", hand carved walnut, $65.00. H. E., 6¾", excellent, $65.00. Ortgies .32 Automatic, good, shoulder holster, $20.00. S. & W., .44 special, good, 6" barrel, $53.00. W-94 .30-30, excellent, $42.00. Springfield, issue C stock, new barrel, new nickel steel bolt, heattreated actions, excellent, $70.00. Mauser '98, Bishop stock, 2 boxes 8mm., $55.00. Alaskan scope, $60.00. WANT—Service Ace, .22-45 conversion, Krag carbine, Enfield issue, W-70 Super .30-'06, W-52 Sporter, OMT 22, Colt Super .38, 330 Weaver, Post. K-22M. No. 1½ primers. Almon Williams, Berea, Ohio. 9-43

SALE OR TRADE—WOODSMAN 6½", PERfect. Two Magazines, $45.00. Savage .303, 26" oct., 40 Kleanbores, good, $40.00. .25 Remington, pump, 40 Kleanbores, V.G., $45.00. .30-30 Winchester carbine, 15 Kleanbores, excellent, $40.00. .45-70 Springfield, 24", perfect, 40 black, 20 Kleanbores, $15.00. WANTED—Lightweight Savage 12 gauge automatic. 28" or Poly Choke. F. C. Culler. Alliance, Ohio. 9-43

SMITH & WESSON MP 4" .38 SPECIAL. EXcellent in, good out. Holsters, ammunition, $45.00. WANTED—Shotgun, rifle, outboard. W. Fleming, 25 Shelby, Dumont, New Jersey. 9-43

SALE OR TRADE—B.S.A. MARTINI HORNET rifle, excellent to perfect, Lyman front and rear sights, drilled for scope blocks, 150 Western cartridges, 40 empties, 1000 primers, 5 pounds powder, new Pacific die, bullet seater and priming arm, $175.00; or will trade for Zeiss or Hensoldt scopes. L. P. Lutfy, 903 Professional Building, Phoenix. Arizona. 9-43

WINCHESTER STANDARD WEIGHT MODEL 52, very good, Lyman 48 rear, 8 power Unertl combination target scope, micrometer mounts, 1¼" sling, sheepskin case, $150.00 complete. Will take in or buy Winchester 70 in .257 or .270. Warren O. Lamb, 2113 Fairfax Avenue, Nashville, 5, Tenn. 9-43

SALE—VERY GOOD TO EXCELLENT HI-Standard D, 6¾" barrel, $55.00. Ex. K-22, $60.00. Perfect Remington 16 gauge auto, Vent rib with Cutts comp., $115.00. Some shells. .22 Long Rifle cartridges. 9mm. Luger, excellent, $45.00. WANTED—Enfield action, .257-100 grain bullets, Mod. 70 Winchester Roberts .257. Stamp please. Arthur E. Nelson, 1619 W. 58th Street, Minneapolis, 9, Minn. 9-43

MODEL 94 WINCHESTER, PERFECT, .30-30, 26" round, full, takedown, $50.00. WANTED—.30-'06 rifle. Aubrey Camden, Tye River, Va. 9-43

NEW COLT COMMANDO, .38 SPECIAL, PLASTIC grips, 4 inch barrel, never fired, $55.00. 9mm., 5½ inch barrel Mauser, excellent, ammunition, $50.00. Also genuine German Luger, 7.65mm., excellent, 3 clips in leather case, ammunition, $50.00. Mitchell Snider, 205 Elm Street, Belpre, Ohio. 9-43

WINCHESTER M70, STANDARD, .300 H&H, 48 WJS, Sling, Perfect. Fired thirteen rounds. Also 187 hunting cartridges, $115. F.O.B. WANTED NEW: N. M. Sporter, Star Gauged Springfield. All replies considered until 10th. Paul Fedorys, 10 Hillside Avenue, New York, New York. 9-43

LORD ELGIN WRIST WATCH EXCELLENT, $50.00 or excellent 45 commercial Auto. White gold 17 jewel South Bend pocket watch, very good $25.00 or pressure cooker or what? One dozen Johnson folding goose decoys very good, $10.00. Hugh P. Prince, Route 2, Gladewater, Texas. 9-43

BAKER 12 DOUBLE, MECHANICALLY EXCELlent, finish very good, box shells $35.00. Remington 25-20 pump, excellent or better, 160 shells $35.00. Mauser .25 automatic, magazine catch missing, $8.00. 9 boxes .250 Savage Kleanbore $20.00. 4 boxes .35 Winchester Staynless $10.00. Trade Smith 10 double for small gauge pump. Want .44 Colt percussion. John Crone, Route 1, Lebanon, Pennsylvania. 9-43

.45 S.A.A. 5½" NICKEL, V.G., $40.00. .32 Mauser, Franzite, v.g., $35.00. 25 shells each. .38 S.&.W. Hammerless 4", gold, pearl, v.g., $30.00. 9mm. Luger 6", adj. rear on breechblock, Navy Model, v.g., $50.00. Shells $10.00, Springfield Star Gauged C stock, King and issue sights, reheat treated, excellent in and out, $65.00, cartridges, 6¢. Wesley Bates, Route No. 2, Columbus, S. C. 9-43

SALE OR TRADE BY SHOOTER—.22 H&R Trapper revolver, about 5 inch, very good, $10.00. Woodsman 6" used but looks perfect inside and shoots like a rifle, blue worn some, shoots Hi Speed, $45.00. H&R Special 6 inch .22 Long Rifle, very good, $20.00. H&R Police revolver .38 S&W., target sights adjustable front and rear, perfect, holster and cartridge belt, all like new, coat around 40, for $30.00. Remington Auto, 12 rib barrel, engraved receiver, perfect, with new blue job $80.00. Winchester 12-12 gauge like new except barrel was scratched and blue slightly worn so had it reblued, expert job, dead black, $50.00. Ammunination sold with guns only, reasonable. Want, especially a .50-110 Winchester 86 model, barrel condition immaterial, Primed empties, empties unprimed or loaded if cheap, also big pistol or rifle primers. Kings semi-smokeless powder, any grade. Want S&W or Colt revolvers any caliber. Want target scope and good mounts or will buy mounts alone if good. Let me know what you have as I have other guns and change quite often. Robert Brown, BX 193, Ripon, Wisconsin. 9-43

WINCHESTER, MODEL 94 CARBINE, .30-30, perfect, Redfield 70 rear, ramp front, triggershoe, two boxes ammo. $70.00. Remington .32 caliber slide action, excellent in and out except barrel slightly rough in grooves but not worn, two boxes ammo. $50.00. Savage 430, 16 gauge O&U, perfect, five boxes ammo. $65.00. H&A .38 revolver, five inch barrel, perfect, several rounds, $18.00. Want perfect S&W .38 M&P Target, Alaskan with M70 Griffin and Howe mount. Have odd lots rifle and pistol ammo. for trade. Advise your wants. Ed Betz, Life Member, 1510 S. Mint Street, Charlotte, 2, North Carolina. 9-43

"K-22," EXCELLENT AT $70.00 AND "K-38", M.&P., very good to excellent at $60.00. A "matched-pair", 6" bbls., just back from factory check-up, identical actions and let-offs of 2¾ lbs.; McGivern gold bead ⅛" patridge front & King white-outlined rear sights. Examination privilege. Sell both for $125.00 or consider trade for Colt's .38-O.M.T., or .357 magnum Shooting Master. Also want X-ring or Detroit bullet trap. R. C. "Bob" Geesey, 325 E. Maple Street, York, Pennsylvania. 9-43

WANTED—MAY RIFLEMAN COPY—ALSO Sharps-Bor. action, 1896 Krag action, big-game scope. Sell .30-06 Buffalo Newton barrel, good, $4.00. M. O. Nelson, 4056 N. E. 6, Portland, 12, Oregon. 9-43

FOR SALE: COLT COMMERCIAL 45 AUTO. Harpe accuracy job, $70.00. Mauser Military pistol cal. 7.63, $65.00. Hi-Standard Model "D" 4½", special ejector, grips, $75.00. Remington Model 8, cal. 30, $50.00, Cartridges for all. Want: Loading tool for Colt cal. 45 (not auto), also issue Springfield. Cash or trade. Walton, P.O. Box 1457, Tampa, 1. Fla. 9-43

WAFFENFABRIK MAUSER OBERNDORF Sporter, .30-'06, full length rib, 24" barrel, Circassian, cheekrest, horn tip, bought Berlin summer 1939, new condition. $200.00 or trade for new Griffin & Howe in .257, .250 or .35 Remington. Brand new factory ammunition; Winchester, Western, Remington, five boxes .257 Roberts, two boxes 9mm. Mauser-Mannlicher, one box each. .270, .303 British, .250 Savage, broken boxes 13-.348's, 16-8mm. Mannlicher the lot $50.00. WANTED—Mauser Sporter 6.5 X54. Cash. George Pace, 3512 Cameron Mills Road, Alexandria, Virginia. 9-43

WINCHESTER 1901, 12 GAUGE 28" MOD., EXcellent, $40.00. Winchester 90 .22 WRF, fine, $20.00. Winchester S.S. .32-20, good, $18.00. Winchester S.S. .22 L.R., V.G., Lyman, $22.00. Marlin 27 .32-20 V.G. barrel poor, $10.00. Remington Hepburn V.G., .40-60S, all original, $20.00. Marlin, new condition, .40-60, M89 mod. original, fine, shotgun stock, $28.00. .40-60M mould, tools, many components, all $6.00. Marlin .38-40 T.D., V.G., $25.00. Stevens breakopen 28" heavy, V.G., but poor barrel, $12.00. 5½ lb. 20 gauge English double M.L. Circassian stock, $15.00. Excellent .22 P.P. 6", $38.00. Colt Lightning, .41, box cartridges. $22.00. Allen and Thurber S.S. .36 rifled M.L. 6", good, $8.00. Want cash. Winchester 16 pump. Life Member, E. R. Fraser, Gibson City, Illinois. 9-43

EXCELLENT .35 REMINGTON AUTOMATIC "Woodsmaster" $100 or trade for 70-'06 with target peep sight. Want .35, .30-'06 and 12 gauge shells. Reino Raikko, Merchant's Hotel, Tacoma, Washington. 9-43

COLT "COMMANDO" 38 SPECIAL, 4½ INCH, holster and ctgs. All new, $45.00. Want Parker or Ithaca 28 Gauge, 25 or 26 inch, Colts Woodsman 4½ inch. Give full description, condition and price first letter. P. R. Lilly, Valdosta, Ga. 9-43

SPRINGFIELD, STAR GAUGE, LYMAN 48, NEW sling, C stock, V.G., inside, out, $85.00. Mauser 8mm. Sporter, checkered, V.G. outside, in. $45.00. Remington .35 auto., Model 14, V.G. inside, slight use outside, $67.50. 2, .303 British Sporter, 24 inch, shows use outside, 2 boxes, $32.00. Savage, Model 20, .300 Sporter, checkered, good inside, V.G. outside, $42.50, Krag Mannlicher Sporter, V.G. outside, good inside, $37.50, Mauser Amberg, 11mm., 71-84 Bolt action, 10 shot auto., 35 shells, V.G. inside, shows use outside, $50.00. Money orders or trade Lyman Alaskan, or 70 Winchester. H. C. Osborn, 1120 Broadway, San Antonio, Texas. 9-43

BROWNING OVER AND UNDER, 12 GA LIGHTning Model, 28" F&M, double triggers, selected wood in stock and fore-end. Excellent to perfect $110. Four boxes shells, $1.25 per box. Will take Hensoldt or Ziess 4X Scope on trade. C. Buehler, 714 Murdock Rd., Baltimore, 12, Md. **9-43**

WINCHESTER 94 RIFLE, .44-40 CALIBER. 24 inch barrel full magazine, factory grease, 100 shells, $55.00. WANTED—Large and small pistol primers, large rifle primers, .410 shot shells 3", .45 A.C.P. and .30-'06 jacket bullets, 9mm. Luger and .32-20 ammunition, loading tools. M. A. Hollander, 3947 N. Clerose Circle, Cincinnati, 5, Ohio. 9-43

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99 SAVAGE .22 HI-POWER, TANG REAR, VERY good, $42.00. A. J. Aubrey 12, damascus double, hammerless, antique, $15.00. WANTED—Mauser action, very good or better. No checks! Don Spross, 3149 Burcham Drive, East Lansing, Michigan. 9-43

FOR SALE—64M WINCHESTER .32 SPECIAL, perfect except small scratch on stock. 2 boxes cartridges, $65.00. Enfield Bishop Sporter, .30-'06. New barrel, very good out. Ramp front, Redfield receiver, 50 cartridges, $60.00. .30-40 Springfield Krag, excellent. $40.00, 40 cartridges. WANTED—Sedgley Springfield or Winchester 70M with good hunting scope. Edwin Larson, Rutledge, Minn. 9-43

SALE OR TRADE—WINCHESTER A5 SCOPE, $30.00. Winchester '06, .22 repeater, $16.00. WANTED—330 Weaver. C. Nieset, Millersville, Ohio. 9-43

FOR SALE OR TRADE—SEDGLEY SPRINGfield Hornet, hooded ramp front, 48 rear, sling strap with detachable swivels, beautiful gun in perfect condition, $100.00. Ammunition for same $3.50 per box. Jim Craton, Life Member, Davenport, Iowa. 9-43

SELL OR TRADE—52 MARKSMAN H.B., LYMAN sights, round top, excellent, 500 L.R., $90.00. 52 custom, A action, Savage barrel, Ljutic Star stock, scope blocks, excellent, 500 L. R., swell job, **$95.00.** .220 Swift, Springfield, Buhmiller, Bishop target stock, 50 handloads, scope blocks, near new, $95.00. .30-'06 Springfield, T barrel, C stock, scope blocks, very good, 1" gun with N.M., $90.00. 30-30 Winchester carbine, .30-30 Winchester takedown, hunting condition, some pits, two boxes cartridges with each, $45.00 each. Ithaca Field Grade, 16-28, excellent, $60.00. WANTED—Model 21 Winchester 20 gauge, small target scope, Hornet, Bee, Zipper .22 caliber bullets, primers. Sam Bond, New Philadelphia, Ohio. 9-43

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FOR SALE—MEEPOS LOADING TOOL .257 AND Hornet, $28.00; ammunition; 2 boxes 9mm. $3.95; 10 boxes .303 Savage, $2.65; 4 boxes .25 Stevens Short $1.00; 2 boxes .22 Savage, $2.50. 1 box Winchester .35, $2.97; 3 boxes .32 Remington Auto., $2.75; 3 boxes .30-'06, $2.50. Will trade for .22 L.R. or Rifle Primers. Want Walnut Hill 417½. T. P. Gies, Hastings, Michigan. 9-43

OFFERED BY WILSON, PARKER VH. 12 gauge 30" FF, V.G., $65.00; L. C. Smith "Trap" grade, 32" FF, AE, straight stock, V.G. in and out $85.00; Parker DH, reconditioned by factory, new barrel, straight stock, 12 gauge 28" FM, $125.00; Savage .250-3000, Model 40, V.G., $45.00. Will accept automatic pistols in trade. .32-.380-.45 and Lugers. Wilson's, 3082 West 25th Street (13), Cleveland, Ohio. 9-43

S.&W. 1917, GOOD OUT. V.G. IN, $37.50; Colt P.P., .22 W.R.F., target sights, 50 shells, good out, V.G. in, $32.50; S.&W. .38 hammerless, nickeled, good, $20.00; Savage .32 automatic, 50 cartridges, Heiser holster, V.G., except holster wear, $27.50; H.&R. .32 nickeled, 5 inch, 30 cartridges, fair, $12.50; Stevens pistol, .25 Rim, 18 inch heavy barrel, detachable stock, 19 cartridges, fair, $14.00; Remington S.S. target pistol, caliber .44 S.&W. Russian; Ideal tool, 25 handloads, 36 cases, V.G., $22.50; 1873 Winchester, .44-40, 22 cartridges, fair, $20.00; 1876 Winchester, .40-60, 22 factory loads, mold, tool, fair, $26.00; 11 pound percussion rifle by O. Van Dyke, .53 caliber, fancy patch box, $20.00; .31 caliber fullstock Kentucky, 40 inch barrel, mold, $18.50; 10 gauge Williams single percussion, stock repaired, lock excellent, $8.50; two 45 clips, $1.35 each. WANTED—S.&W. Outdoorsman, Winchester 70, .30-'06, 29S scope, magazine clip and base for model 1916 Lee Enfield .303 British; 26X eyepiece B.&L. prismatic. H. Crossett, 925 So. 3rd, La Crosse, Wisc. 9-43

S.&W. .357 MAG., 50 SHELLS, $100.00. FECKER small game, trade for M-1, .22 caliber Springfield or what? B. A. Tillman, 1231 Fletcher Avenue, Zone 4, Ft. Wayne, Indiana. 9-43

SELL OR TRADE—50 RADIO TUBES, LIST ON request. S.&W. .38 Special, 3 inch rib barrel, reflector front, square rear, stag grips, laced holster, honed, pits in barrel, otherwise excellent, $45.00. Colt .45 automatic, commercial, arched housing, stag grips, new holster, excellent, $60.00. Spanish .32 auto. new, new holster, $20.00. Remington-Smoot, 5 shot, .30 Rim-Fire, nickel, new, perfect, 1 box cartridges, $25.00. Ithaca featherlight 16 pump, new, sheepskin case, $60.00. Mossberg Targo, Remington .22 Single, Shot guns, shells and targets. Savage 23D Hornet, clip, excellent plus, $45.00. J. R. Thomas, Brockport, New York. 9-43

HEAVY BALLARD .22 PRONE MATCH RIFLE, $55.00. WANTED—Hepburn .32-20 or .32-30; Stevens 44½, Borchardt, Fraser, Farquharson action. reasonable. James J. Grant, 336 Base Hq. A.B. Sq. (SP) Buckley Field, Colorado. 9-43

SALE OR TRADE—.22 POLICE POSITIVE TARget, excellent Heiser holster, $40.00. Match Target, poor out, very good inside, $45.00. Late B.&L. standard weight, 6X30, central focusing, optically perfect, zipper case, straps, $75.00. WANTED—Late M.&P. .38 Special four inch, .22 ammunition. L. O'Sullivan, 907 Drackert, Hammond, Indiana. 9-43

COLT .45 ARMY V.G., $32.50. COLT .45 AUTOmatic, good, $42.50. Another better, $47.50. Colt Ace, excellent, $65.00. Colt Bisley .45, 7½", bolt, holster, ammunition, perfect, $52.50. Colt .32 new police 4", 50 rounds, fine, $32.50. S.&W. K-22, excellent, $65.00. S.&W. .38 Special 3", fine, $39.50. S.&W. .38 Special M.&P. Target, Roper grips, cockeyed hammer, Buchananized, Fancy Heiser belt, and holster, excellent, complete $79.50. Marlin 20 gauge pump, V.G., $32.50. Winchester Model 21, trap grade 12X28 Skeet, S.S.T., ejectors, beavertail, perfect, $150.00. W1886, engraved action and stock only, $15.00. Perfect blue white 1¼ carat diamond, $950.00 value. Sell or trade for guns. Want Hi-Standard E. Andrew Spina, 155 William Street, Towanda, Pa. 9-43

9MM. WAFFENFABRIK MAUSER PISTOL WITH holster, 5½ barrel, good condition, $65.00. New Remington automatic 5 shot 16, 26 cyl. bore, $75.00. WANTED—.30-'06 Bull gun. Must be perfect. Or other shooting equipment. Guy Stancil, Gainesville, Ga. 9-43

SELL—.22 REISING AUTO., PERFECT IN, EXcellent out, or trade for excellent Model 70 Swift; pay difference. 100,-.257 primed cases, $8.00. 40 factory .30-30s, $9.00. Rex Jewett, Ord., Nebraska. 9-43

.38 COLT REVOLVER, ARMY SPECIAL, EXCELlent. Box ammunition, $50.00. 300 rounds late .30-'06. WANTED—M70, .250-3000 and ammunition. Also 8X scope. Bob Brownell, Montezuma, **Iowa.** 9-43

COLT .25-20 CALIBER, ON NEW SERVICE frame relined by expert, like new with box of shells, $65.00 or trade for K-22. Also Model 70, .257 caliber, perfect 100 Kleanbores, $110.00. Or trade for Model 70, .30-'06 same condition. R. Fierge, 902 Main Street, Quincy, Illinois. 9-43

TRADE

TRADE—.32 CALIBER RED JACKET N.7. REVolver, nickel, poor condition, about 105 years old. .44 Colt, 8" barrel and bullet mould about 94 years old. Trade—these two guns for .22 Long Rifle shells. Charles Leasure, 181 W. La Clede, Youngstown, Ohio. 9-43

TRADE—REMINGTON 16 AUTOMATIC, 26" Improved cylinder, oil finished stock, recoil pad, very good in good out with 200 shells, for Winchester heavy Duck gun with shells, good condition or better. J. C. Stocks, Tallulah, Louisiana. 9-43

TRADE—CIROFLEX, PERFECT, f:3.5, ACCESsories, WANT—.22 Automatic pistol, Hornet, Remington M-550, or ? Philip Callahan, 6152 S. Meade Avenue, Chicago, Illinois. 9-43

TRADE—600 REMINGTON 9½ PRIMERS AND $5.00 for Howe's modern gunsmithing. A. Klemens, 1315 17th Avenue, San Francisco, California. 9-43

TRADE—.351 WINCHESTER SL. INSIDE EXcellent, blueing well worn. WANT—.35 Winchester SL., with excellent barrel. Morton Bierly, 3195 McKinley Blvd., Sacramento, California. 9-43

TRADE—300, 12 GAUGE DUCKLOADS FOR 61 Winchester Rifle. George Lentz, 1403 Coml., Atchison, Kansas. 9-43

TRADE—DETROLA CAMERA WITH CASE. $25.00. 3.5 lens, 25-200 shutter. For 6½ primers, equal parts in .224 bullets 45, 50, 55 grain. Howard C. Singer, 2615 N. Station St., Indianapolis, Indiana. 9-43

TRADE—2¼ X 3¼ IHAGEE DUPLEX CAMERA, new condition, f:4.5 Zeiss Tessar lens. Compur shutter. WANT—.30-06 target rifle in very good condition. Consider Springfield National Match, Winchester 70 H.B. or what have you? Monty Mann, 307 Guardian Life Bldg., Dallas 1, Texas. 9-43

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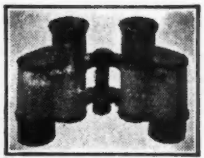

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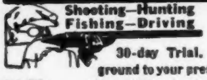

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WANTED—Model 70, .270 or .300 Magnum rifle, must be in good shape; also shells and Weaver 330 scope. J. Wolters, 703 Empire, Coeur d' Alene, Idaho. 9-43

TRADE—.22 LONG RIFLE CARTRIDGES TOwards 70 Winchester, Farquharson action. Target scope. Earl Price, Lodi, Wisconsin. 9-43

TRADE—K-22, VERY GOOD FOR LONG RIFLE ammunition. Charles Neumann, 3507 S. Benton, Kansas City, Missouri. 9-43

TRADE—.22 LONG RIFLES FOR RIBBED REMington M-31, 20 gauge; Sell Ithaca No. 2, 10 gauge Magnum, Single trigger, Beavertail, good out, excellent in, 6½ boxes shells, $100.00. Trade Gunsmithing work for low priced rifles, shotguns. Frank de Haas, Orange City, Iowa. 9-43

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TRADE—EXCELLENT COLT .38 SPL. RAMP front. King micrometer rear, extra heavy 6-in. barrel. Work done by George Hyde. WANTED—B.&L. N.R.A. scope 19.5X & 26.5X with stand. Joseph Gamsu, 1585 Odell, Bronx 62, New York. 9-43

MODEL 94 WINCHESTER, .30-30 CALIBER, special selected stock, water repellent case, 4 boxes new ammunition, gun perfect in and out; trade for Woodsman, excellent or better. Commercial .45 automatic, sweet factory pull job, extra clips, holster, excellent excepting slight scratch on slide; trade for OMT 6 inch Heavy barrel, .38 caliber, excellent or better. Chester Gould, Life Member, 7441 Madison Street, Forest Park, Illinois. 9-43

TRADE—COLT WOODSMAN 4½", VERY GOOD in, some holster wear out, for good target scope. Alan H. Clark, Hat Creek, Wyoming. 9-43

TRADE—WINCHESTER SINGLE SHOT .32-40, High Wall, Takedown No. 3 round barrel, Winchester tang and front sight, condition excellent. For Lyman Junior Targetspot with mounts or pay cash difference for Targetspot, must be very good or better. Eugene B. Leavitt, Bridgewater, Vermont. 9-43

7½" .45 COLT S.A. ARMY, PLASTIC STAG grips, new holster, 160 rounds, very good, swap for Hi-Standard, state condition; Wanted in good condition, 12 or 16 gauge Belgian Browning auto. shotgun. George Schultz, 4834 Addison, Chicago, Illinois. 9-43

TRADE—PERFECT SAVAGE, UTILITY .30-30. 16 gauge, Winchester 70-.30-'06 and .270 barrels; Lyman 48 W.J.S., Lyman 56S, Redfield 70 WH, Mauser 98 action. WANTED—.30-'06 primers, bullets, cartridges, Winchester 64 Deer rifle. Edward Johnson, Sparta, Wisconsin, R.F.D. 1. 9-43

TRADE—M.T. WOODSMAN, EXCELLENT throughout. WANTED—.32 Officer's Model Colt heavy barrel, same condition. William Goebel, 618 Eye Street, N. W., Washington, D. C. 9-43

FOR SALE OR TRADE—TWO LARGE CALIBER Colt revolvers. A lot of Hi-Power rifle cartridges, also several revolver cartridges, assorted sizes. WANTED—Wrecked Hi-Grade guns and extra barrels for shotguns. Arthur W. Plumlee, Cambria, Illinois. 9-43

FOR TRADE—.22 LONG RIFLE MARK II, Kleanbore, Expert, for .38 Officer's Model heavy 6" barrel. S.&W. .44 Special nickel, scabbard, very good. Want 20 gauge Remington or Browning automatic. A. J. Cook, Delaware, Oklahoma. 9-43

GOLF BALLS—96, EXCELLENT TO VERY good, 39 practice—132 rounds. .30-'06 hunting loads. WANTED—Hornet loading tools and components. Lawrence Shea, Chester, California. 9-43

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TRADE, KEUFFEL-ESSER, PRECISION, NO. 1200, 32", 3 arm vernier protractor, new condition, trade reasonable to person who can use it in war work. Lists at $175. Also trade issue Springfield, very good, .45 auto, commercial good. Ballard Engraved Scheutzen, good action, poor barrel. Want 22 L. R. cartridges, .30-40 or other excellent Single Shot rifles. Adept model makers, metal shaper, belt and disc sander, other bench or hand tools. L. Wadman, Box 854, Mill Valley, California. 9-43

TRADE 45 AUTO GOOD 100 CARTRIDGES. Want .22 Woodsman, Long range rifle, .30-40, .30-'06 .270. What have you? Art Bentley, Shields, Kansas. 9-43

TRADE 600 ROUNDS .38 LONG COLT AMMO for 35 mm. camera. A. Lee Chamberlin, 1907 Clark St., Des Moines, 14, Iowa. 9-43

.22 LONG RIFLE AND MANY OTHER CENTER fire cartridges for any gauge shotgun shells, 1942 list for list. Jim Craton, Life Member, Davenport, Iowa. 9-43

TRADE—.30-'06 Remington Express, 417 Walnut Hill Target, both fine. Also 39A .22 Marlin. Never fired. Primers. Ammunition for each gun. WANTED—South Bend lathe or Bench Mill. K. C. Thompson, 8629 S. Gate Avenue, South Gate, California. 9-43

HAVE STANDARD M70, .257 SCOPE SIGHTED to trade for S.& W., .357 Magnum, pre-war, cost basis exchange, components at cost. C. F. Hober, 21 Willets Avenue, Belmont, New York. 9-43

TRADE—3BBL. HAMMER "CHAS. DALY". 10-10.-.44-40 good. .41 caliber P. W. Webley revolver "The Pug" good. 60-.30-30 Corelokt. 20-.38-55 Mushroom. 50-.30 Luger Soft Point. 100-32 Long Colt. 300-.32 Colt auto. 50-.45 Colt auto. WANTED—.22 Short, .25 Stevens, .32 Short and Long. .41 short rim fire. .38 S.&W. .40-82 Mushroom. 8 gauge and 10 gauge cartridges. .22 caliber repeater rifle. Joe Hyatt, Ridgeville, S. C. 9-43

WANTED

WANTED FOR CASH—SHOTGUNS, RIFLES, Pistols and Revolvers. Can use all makes and types. Describe guns fully in first letter, state price, all mail answered. Big Ben Mercantile and Loan Co., 179 Third Street, San Francisco, Calif. tf

WANTED—COLT CONVERSION UNIT WITH floating chamber to convert .45 to .22 for use by Soldier in South Pacific. Will pay good price for unit in good condition. A. J. Hazlett, c/o Jones & Laughlin Steel Corp., Third and Ross, Pittsburgh, Penna. 10-43

WANTED—SHARPS RIFLES. ESPECIALLY want fine Creedmore target rifles, fancy sporting models and heavy barreled Buffalo guns. Will pay a premium for fine custom Sharps with fine stocks and engraved presentation arms. Only want guns in fine condition; also want Sharps catalogs, bullet molds and loaded ammunition. Write complete detailed description and cash price. M. C. Clark, 169 N. La Peer Drive, Beverly Hills, California. 9-43

WANTED—TO BUY OR BORROW SIX .22-.45 conversion units, for training, Reply to Company Commander, "A" Co., Maint. Bn., 5th AD. APO 255, Pine Camp, New York. 9-43

WANTED—COLT OR S.&W. DETECTIVE .38 Special, 2 inch. Ralph Dittmann, 427 W. Bender Rd., Milwaukee, Wisconsin. 9-43

WANTED—.300 H. & H. MAGNUM AND .270 with scope and ammunition, excellent to perfect. All communications answered. Al Candies, Hotel Tioga, Merced, California. 9-43

WANTED—UDO ANSCHUTZ FREE PISTOL, 210 or 210-A. Will consider others of equal quality. Also .41 Remington Derringer. Describe. All excellent to perfect. Halford Lembke, 318 Oceanic Bldg., Seattle, Washington. 9-43

WANTED—FAIR PRICES PAID FOR TARGET pistols, revolvers, rifles and antique guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-64, 13 S. 16th St., Philadelphia, Pa. 9-43

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WANTED—BELGIAN BROWNING SWEET SIXteen, ventilated rib, perfect condition. M. E. Hutton, 222 South Mariposa Avenue, Los Angeles, California. 9-43

WANTED—MODEL 52 STANDARD BARREL, excellent condition. State price, describe fully. Robert Pilston, 1115 Park Street, Tarentum, Pa. 9-43

WANTED—.270 WINCHESTER M70 OR REMington M720, ammunition. Excellent to perfect. Also .30-40 good, ammunition. Wallace Kean, 4713 12th N. E., Seattle 5, Washington. 9-43

WANTED—M70 STANDARD .300 H&H OR .270 and ammunition. No scopes. .250-3000, .300 Savage .256 and .30-40. Ammunition. Prices must be reasonable. Kenneth Atkinson, Garrett, Wyoming. 9-43

WANTED—COLT AND S.&W. REVOLVERS, AUtomatic pistols, .30-'06 cartridges, .45-70 cartridges, Springfield rifles, Enfield rifles, Krag rifles, cameras any make. Warshal's, First & Madison-BB, Seattle 4, Washington. 9-43

WANTED—NEW OR USED .22 TARGET, AND .30-'06 Sporter also Remington model 31 S-H or TC Trap gun. Describe fully. L. W. Secor, 1102 N. Charles Street, Baltimore, 1, Maryland. 9-43

WANTED—.32 TARGET REVOLVER, PACIFIC dies, for Hornet, .300 Savage; .32 Colt. Moulds. TRADE—Ammunition, 22's, .35 Winchester, .38 Special, 7mm., others. Several rifles, shotguns. For what? J. Ed. Minnich, Waynesboro, Pa. 9-43

WANTED—.38 CALIBER, NEW SERVICE COLT preferred. TRADE—Rifleman April 1933-August 1943, Seven missing, for .44 Winchester, Model 1873, revolver cartridges or what? Jim Vaughn, Route 4, Hanford, California. 9-43

WANTED—LARGE AND SMALL N.M.N.C. rifle primers, sealed cartons only, also F.A. No. 70; 25 and 30 caliber bullets. Jordan Magnum Press dies for .38 Sp., and others. Ideal mold No. 311413, .28-30 tool and mold. SALE OR TRADE—Sharps-Borchardt .45-70 restocked in fancy walnut, grip cap, and fore-end tip, extension lever, no buttplate, tip broken off extractor, $20.00. WANTED—Union Hill Ballard, good to better, Stevens 44½, double set trigger, center fire action or complete rifle. W. E. Long, 637 Carroll Street, Akron, 4, Ohio. 9-43

WANTED—.30-'06, VERY GOOD CONDITION, with scope and mounts. William C. Kendrick, 7636 Papio Street, Honolulu, T. H 9-43

WANTED—COLT SERVICE MODEL ACE, Walther pistol, .45 Remington automatic and .45 Luger pistol. Also 25 shot magazine for Colt .45 automatic. Arthur Leidesdorf, Elberon, New Jersey. 9-43

WANTED—ALASKAN, SHORT MAUSER ACtion, M70 action, Ideal tong. 25-20R. dies, .257 rifle, 7mm. rifle, sporting Mauser action. R. M. Johnston, Box 3051, Juneau, Alaska. 9-43

WANTED—SAVAGE 12 AUTOMATIC WITH aluminum receiver, lightweight Model 745, 28", Plain, Cutts, or Poly, or Browning sweet 16, excellent, state price wanted. S. P. Mosher, Dowagiac, Michigan. 10-43

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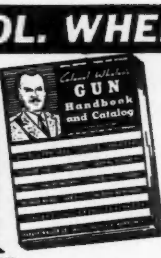

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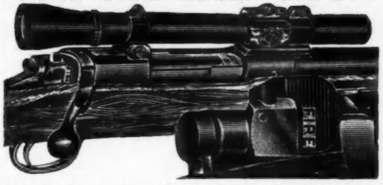

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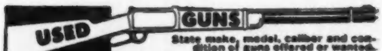

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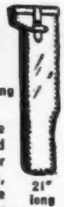

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FOR SALE—SHOTGUN CARTRIDGE WADS, Weston make, cardboard A&B, 10 gauge, $1.25M; All other gauges $1.20M; ¼" Sealtite, 10 gauge $4.30M; All other gauges $3.65M; ⅜" Sealtite, 10 gauge $7.10M; All other gauges $6.60M; bulk shotgun powder, $1.00 per ½ lb. canister; drop shot, $1.00 per 5 lb. bag. Belding & Mull, Philipsburg, Pa. 9-43

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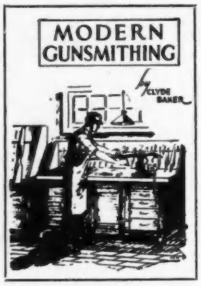

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WANTED—.22 HORNET AND .220 SWIFT shells. Factory or handloaded. Price no object. Send C.O.D. WANTED—Hornet primers and bullets. Ward G. Hayter, 1012 Irwin Street, San Rafael, California. 9-43

WANTED—150 AND 180 GRAIN POINTED EXpanding bullets for .30-'06. Will pay good price. Fred Frazier, 930 West Midwest, Casper, Wyoming. 9-43

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.30-30, .32 SPECIAL, DEER RELOADS, $2.00 box with your cases, $2.75 without. Others, list of Ideal Tru-Line Press, dies for .38 Special, Krag, Pacific tool and/or '06, .30-30, .45 auto., other dies. List primers, reloads, etc. Stamp. .38 Special, .30-30 cases for sale. F. Emerson, Auburn Street, Auburn, Mass. 9-43

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YOUR GUN WILL BLUE PERFECTLY AFTER having nickel or silver plating removed to base metal by my process, $2.00 and up. G. B. Gaumer, 4028 Parrish, East Chicago, Indiana. 9-43

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NEW SIGHTS IN STOCK. LYMAN 48S FOR Springfield '03—$10.35; Redfield Series 70 for Enfield, Rem. M. 30, & Marlin 39—$6.75; Redfield 102W for M 70 & 54—$4.50; Goss Supervision fronts for M 52, M 37, & Springfield '03—$6.00; Lyman 58RS for M 513—$6.20; Lyman 57MS for Mossberg—$5.40; Marble Goss extensions for M 37—$10.80; Marble Goss 750 Series for Mossberg, M 75, Stevens, & Sears Ranger No. 50—$6.75. Badger Shooters Supply, Owen, Wisconsin. 9-43

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WILL PAY $150.00 FOR A ZEISS ZIELSECHS or Zielacht scope in perfect condition. Paul Leverich, 320 No. Lawrence, Fullerton, Calif. 8-43

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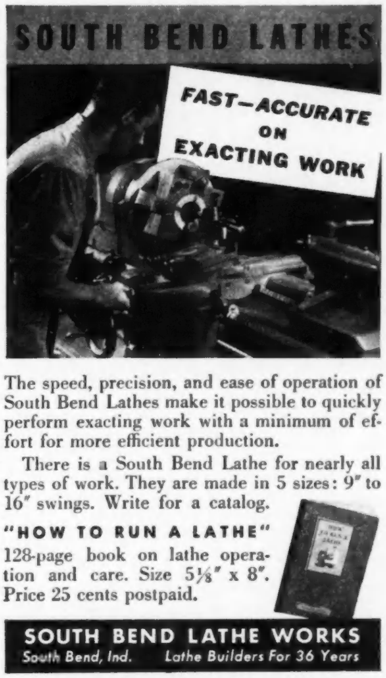
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WANTED—ONE LYMAN OR REDFIELD MIcrometer rear sight for Springfield '06, or Enfield. Have Lyman 48 for 52 Winchester. J. T. Young, Winslow, Arizona. 9-43

WANTED—ARGUS SPOTTING SCOPE, PERfect condition. M. E. Hutton, 222 South Mariposa Avenue, Los Angeles, California. 9-43

SELL—ALPINE "A", WEISS, DENVER, LIGHTweight binocular, 8X27, very good condition, fair leather case, $30.00 M.O. J. Green, 2817 Orchard Street, Chicago, Illinois. 9-43

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NEW PAIR RUSSELL "IKE WALTON" 16" Moccasin, size 9, $24.00. New pair Bausch & Lomb 9x35 binocular with leather case, $135.00. Harvey L. Rumaner, 520 Beattie Street, Syracuse, N. Y. 9-43

FOR SALE—LYMAN 20X SUPER TARGETSPOT scope. Known Ranger case, perfect, $100.00. A. P. Lauritsen, R.F.D., Rockfall, Conn. 9-43

MIRAKEL 8X MIROCULAR BINOCULARS, brand new, $45.00. Will trade for or buy Lyman Jr. targetspot scope, 6, 8 or 10 power, with latest 3-point mounts. Leslie Lindahl, Central City, Nebraska. 9-43

ZEISS 8X30 FEATHERWEIGHT BINOCULARS, like new. Will trade only for Zeiss 4X featherweight scope or Hensoldt large size 4X featherweight. M. L. & M. J. Stith, Milam Building, San Antonio, Texas. 9-43

LYMAN 5A, ¼" CLICK, AS NEW, DELUXE case, $55.00. Ernest Fumasoli, 5937 Magnolia, Chicago, Illinois. 9-43

ZEISS EIGHT POWER BINOCULARS, CENTRAL focusing, like new with case, $147.00. 6X30 BL, excellent, $58.00. Keystone 8mm. like new, with case, $30.00. Carl Porter, 363 Cedar, Aurora, Illinois. 9-43

NEW EIGHT POWER MIROCULAR WITH case, $55.00. Eight power french binocular with case like new, $45.00. Fern Spencer, 363 Cedar, Aurora, Illinois. 9-43

REVERE 99 Turret Eight Movie Camera, $15.00 leather case, F2.5 lens, all new condition, $85.00. Dr. Roy Bakkum, Waukon, Iowa. 9-43

HENSOLDT I. F. 10 X 50 'ROOF PRISM' BINOCulars with case, optically excellent, $150.00. Connie Malinowski, So. Deerfield, Mass. 9-43

ANTIQUES & CURIOS

WANTED—BAUSCH & LOMB OR ARGUS SPOTting scope; Lyman or Fecker target scope, any power. W. P. Klapp, Paoli, Pennsylvania. 9-43

WANTED—ENGRAVED AMERICAN POWDER horns, preferably dated and signed. Herman P. Dean, P.O. Box 1240, Huntington, West Virginia. 9-43

OFFERING COLLECTION OF HIGH GRADE cased double muzzle loading shot guns by famous makers. Also listing some desirable flint and percussion rifles in shooting order. Specify which list wanted. Stamp please. Kimball Arms Company, Woburn, Mass. tf

INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals. Illustrated catalog, 5¢, 100 ancient arrowheads $3.00; H. Daniel, Hot Springs, Ark. tf

WANTED—ANTIQUE COLT'S, REMINGTON'S, Martial pistols, flasks, moulds, collections or single pieces, cash, describe condition fully, also price. E. C. Ward, 406 Wilcox Building, Los Angeles, California. 9-43

WANTED — ANTIQUE FIREARMS. ENTIRE collections or single items. Send description and price. T. J. Cooper, R 7, Meadville, Pa. 9-43

ANTIQUE REVOLVERS, .36 CALIBER COLT'S moulds, 1849 Colt's cased sets, etc, a request brings list. E. C. Ward, 406 Wilcox Building, Los Angeles, 12, California. 9-43

WANTED—FOR CASH: ANTIQUE PISTOLS, Rifles, Swords, Daggers, World War Rifles, Relics, Collections, Single Pieces. Robert Abels, 860 Lexington Ave., New York. 9-43

REVOLVERS, MINERAL, STAMPS, COINS, glass, Indian relics. Catalogue 5¢. Las Cruces Curio Store, Las Cruces, New Mexico. 9-43

LARGE STOCK OF AMERICAN AND EUROpean Antique Arms. Send 10¢ coin for latest 9th edition catalog, featuring the important Dr. Buck collection. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

PRE-HISTORIC STONE TOMAHAWK, 75¢. 100 good prehistoric arrowheads, $3.00. 10 tiny perfect bird arrows, $1.00. Spearhead, 25¢. List free. Caddo Trading Post, Glenwood, Arkansas. tf

INDIAN RELICS, BEADWORK, MINERALS, fossils, coins, curios, pistols, books, old glass. Catalogue, 5¢. Vernon Lemley, Osborne, Kansas. tf

ANTIQUE ARMS, BOUGHT, SOLD, EXCHANGED. Colt, or other ivory gripped models, cased outfits, big heavy Colt, Percussion revolvers and American percussion or flintlock horse pistols particularly desired. Stephen Van Rensselaer. Established 1902. Peterborough, N. H. 9-43

SHOTGUN COVERS, ALL LENGTHS, $1.00. Household thermometers, new 75¢ value, brand new 25¢. Physicians thermometers, pocket style with case, brand new, 3 for $1.00. Gun oil, 1-oz. bottles, 15¢ each, $1.50 per dozen. Public Sport Shops, Dept. R-64, 13 S. 16th Street, Philadelphia, Pa. 9-43

WANTED—FOR CASH: 44 COLT AND REMINGton Percussion Revolvers, poor to fine. Robert Abels, 860 Lexington Ave., New York. 9-43

WANTED—WATCH TOOLS, LATHE, MATErial, movements, etc., have Moto-tool, electric hand grinder. Si Sharp, Slatyfork, West. Va. 9-43

FOR SALE—HAMILTON 21 JEWEL RAILROAD 992 watch. Latest yellow gold wadsworth case, $55.00. N. L. Geary, Stover, Missouri. 9-43

WANTED—ANTIQUE ARMS, COLLECTIONS OR single pieces purchased at fair prices. Give full description. Kimball Arms Co., Woburn, Mass. tf

WANTED — ANTIQUE FIREARMS; POWDER flasks; gun books. Will buy entire collections, cash. James Serven, Box 1777, Santa Ana, Calif. tf

ILLUSTRATED CATALOG OF ANTIQUE PIStols, Rifles, Swords, Rapiers, Daggers. Armor; 25¢ Robert Abels Shop, 860 Lexington Avenue, New York. 9-43

MISCELLANEOUS

$5.00 NEW GOVERNMENT FIBRE DESK trunks with partitions and lock. Suitable for Medical Officers especially. Cost $30.00. Weil's Curiosity Shop, 12 Strawberry Street, Philadelphia. 9-43

WANTED — JOHNSON OUTBOARD MOTORS, Model MD 1½ H.P., HD 2½ H.P., A-75 4½ H.P., and KD 9.8 H.P., excellent or new condition. J. L. Fricks, Albertville, Alabama. 9-43

SOFT LEATHER GOLF WOOD COVERS, $1.10 prepaid, set of three. Fishing reel 250 yard Pfleuger. Temp Star Drag, brand new, $3.95. Decoys, special sale. Mallard drakes and hens, $1.29 postpaid. .30 caliber 1 pc. brass cleaning rods, $1.25 each. Iron dumb bells from 2 to 25 lbs., 25¢ per lb. shipped express charges collect. Air rifle pellets, caliber .177, $2.00 per thousand. Caliber .22-$2.50 per thousand. .38 Spl. cartridge cases Chrome, Western for small primer, shot once, $1.00 per hundred. Public Sport Shops, R-64, 13 S. 16th Street, Philadelphia, Pa. 9-43

$4.00 STEEL SAFE DEPOSIT BOXES. 14X14 inches. Double lock protection, valuable papers, jewelry, money. Mail orders filled. Weil's Curiosity Shop, 12 Strawberry Street, Philadelphia, Pa. 9-43

WANTED—BAYONET AND SCABBARD; ALSO belt for Springfield Model 1903. Roger W. Clawson, 6138 Baynton St., Germantown, 44, Philadelphia, Pa. 9-43

FOR SALE—NEPTUNE 4 H.P. TWIN. GOOD OR better. Used about 40 hrs. first Money-order. $65.00. George Bambas, Richmond, Illinois. 9-43

WANTED — JOHNSON OUTBOARD MOTORS. State model, condition and best price. I pay express. Fred Wehman, 111 Meeting Street, Charleston, South Carolina. 9-43

HUNTING KNIVES—7" FINE QUALITY STEEL blade, with sheath, leather handle, $5.95. (Money back guarantee.) Klein's Sporting Goods, Key 506E, South Halsted, Chicago. 9-43

WANTED—OUTBOARD MOTOR, TWO TO FIVE horsepower. Give all details first letter. Dan Cline, Baker, Louisiana, Route 1. 9-43

THE REVOLVER TIMING RECORD. A 10-INCH RCA-Victor phonograph record. Practice timed and rapid-fire anywhere, by yourself. Nothing to watch—just listen. For "dry" shooting basement and outdoor ranges. One side 10 second timing, other side 20 second timing. Plays on any phonograph. $1.50 postpaid. The Original Sight-Exchange, Box J, Paoli, Penna. 1-44

LARGE STOCK OF AMERICAN AND EUROpean Antique Arms. Send 10¢ coin for latest 9th edition catalog, featuring the important Dr. Buck collections. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

WANTED — JOHNSON OUTBOARD MOTORS. State Model, condition and best price. I pay express. Fred Wehman, 111 Meeting St., Charleston, South Carolina. 9-43

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

WANTED—RUBBER AIR MATTRESS IN GOOD condition. State price wanted. George J. Keller, Idaho Falls, Idaho. 9-43

WANTED—TO BUY HUNTING KNIVES OF ALL descriptions. Public Sport Shops, Dept. R-64, 13 S. 16th Street, Philadelphia, Pa. 9-43

HOHNER CARMEN PIANO ACCORDION. EXcellent, with back band and music stand,, $275.00; music books by Hohner, Pietro, Miner, Remick Gallarini, $9.00; 10 inch Frederick Post (Japan made) slide rule with case, perfect with scales abcdkclslt, $18.00. 115 volt to 8.5 volt 20 amp univerter with 2 small 8.5 motors very good, $20.00. Remington streamline portable typewriter excellent, $65.00. All items F.O.B. Gladewater. Hugh P. Prince, Route 2, Gladewater, Texas. 9-43

SALE—OFFICER'S UNIFORM: DARK ELASTIque blouse, 39, furfelt cap, 7¼; serge shirt 15½ x 33; pink elastique breeches, 32; two chino breeches; short overcoat; cordovan sambrowne; all prewar, perfect, cost $120.00, sell $60.00. W. A. Ball, Oneida, New York. 9-43

OVER 150 COPIES AMERICAN RIFLEMAN dating from 1930, 25¢ each. Donald M. Lewis, 921 Longfellow Avenue, Royal Oak, Michigan. 9-43

WANTED—RUBBER AIR MATTRESS IN GOOD condition. State price wanted. George J. Keller, Idaho Falls, Idaho. 9-43

WANTED—MOVIE PROJECTOR, LATE MODEL 8mm., 500 watt. Elwood Gosse, 822 Swift, Sheboygan, Wisconsin. 9-43

300 ACRES PENNSYLVANIA FOREST LAND. Good deer hunting. 3 miles from Lake Wallenpaupack. $1200. Excellent Six-16 Kodak, f4.5 anastigmat Compur—Rapid, selftimer. $70. Jack Dorflinger, Hawley, Pennsylvania. 9-43

IRISH WATER SPANIELS: SOME OUTSTANDing puppies by Shillalah Danno and Briefmy Bruff ex Shillalahs Moira, Neta and Sharon; shipped with food and canned milk attached to crate. Puppies from $50. AKC. Postcards cannot be answered. Princess Colleen Kennels, 4 Dudley Road, South Sudbury, Mass. 9-43

NEW GIBSON 35" JUMBO SPANISH GUITAR—$47.25. New Gibson "L-50" Grand Auditorium guitar—$68.25. Slightly used Gibson electric Hawaiian guitar outfit complete with amplifier and cases perfect—$150.00. Rudolph's, Atchison, Kansas. 9-43

PATENTS

PATENTS—LOW COST, EASY TERMS. BOOK and information free. Highest references. L. F. Randolph, Dept. 370, 416 5th St., Washington, D. C. tf

TOO LATE TO CLASSIFY

WANTED—SPEED GRAPHIC CAMERA. BARrel for 16 gauge. Browning auto. for cash. George Lewis, Alexandria, Minnesota. 9-43

FOR SALE — MODEL 70 WINCHESTER, '06, Lyman 48, excellent plus, $100.00. .38-55 heavy barrel Winchester 12¾ lb. Single Shot, 12 power Sidel scope, 25 new cases, $65.00. Ithaca Victory single, excellent, $65.00. Trade 3 boxes .401 for .30-40 Krag. G. F. Moser, Sharon, Wisconsin. 9-43

EXCELLENT OR BETTER REMINGTON PUMP Model 31, 12, 30. Recoil pad 100 shells, $90.00. Excellent or better Winchester Model 12, 12 gauge rib barrel, recoil pad, 100 shells, $100.00. 400 late issue .30-'06, $40.00. Excellent Remington .22 auto. L.R., 500 shells, $50.00. Otto J. Mees, Wilmot, S. D. 9-43

RIFLE AND GUNSTOCK BLANKS IN FOLLOWing woods: American Walnut cut from crotch and stump figure. Circassin Walnut. Extra fancy Oregon Myrtle, beautiful figure and Bird's Eye Maple. Wholesaler, with sawmill supervision insuring right grain in grip. Cheapest prices obtainable. Special inletting service to gunsmiths. D. W. Thomas, P. O. Box 184, Vineland, New Jersey. 9-43

SPRINGFIELD STRIPPED RECEIVERS, AS ISsued, $7.50, heat treated, $9.00 each. All parts for .45 auto, except frames and barrels. Prices F.O.B., Philadelphia. No. C.O.D.; no orders less than $1.00, please. E. S. Burrell, 717 Wyndmoor Ave., Phila. 18, Pa. 9-43

STAR GAUGE NATIONAL MATCH SPRINGfield No. 1472627. Service sights and covers, also 48 rear and 17A front. Fine condition with exception of slight nicks in stock. Complete with over 1000 primers, 449-150 grain bullets, 112-172 grain boattail and 792-169 grain bullets sized and lubricated, gas checks attached. Also 355 gas checks only. 110-169 gr. loaded cartridges, 350 primed cases, fired once. Ideal No. 1 lubricator and sizer. Ideal 169 gr. mould. $100.00 cash. .37 Remington Rangemaster No. 01622. Redfield front, Remington rear sights, sling, excellent in, very good out, $65.00. No trades. Walter Grote, 737 Hazlett Avenue, Canton, Ohio. 9-43

A heritage men are fighting for

AMONG the American heritages which our sportsmen at war are defending with their lives is the heritage of hunting an abundant game.

These men are looking forward to good hunting when they return, and they certainly will have earned it. Let's not let them down!

It is the added responsibility of all of us at home to do even more than our peacetime share in the game restoration program. E. I. du Pont de Nemours & Company (Inc.), Wilmington, Delaware.

DU PONT
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EXPLOSIVES & SPORTING POWDERS

PRESS OF JUDD & DETWEILER, INC., WASHINGTON, D. C.

Wherever America Fights...

Western Is Fighting, Too!

"Americans are the best-equipped soldiers in the world"

Maj. Gen. Levin H. Campbell, Jr.
Chief of Ordnance

AMMUNITION

More than 5 ***billion*** rounds of rifle and machine gun ammunition, in .30 and .50 caliber, and many other types, have been produced by Western-operated plants at East Alton, Ill., New Haven, Conn., and the St. Louis Ordnance Plant, operated by The United States Cartridge Company, a Western subsidiary. The latter is producing more small arms ammunition than was turned out by all American factories during World War I.

GARANDS

Winchester is manufacturing, in great quantities, the famous Garand semi-automatic rifle which won its spurs at Wake Island and Bataan. Winchester was the first commercial arms company to make it—and, due to manufacturing economies, has reduced the cost to the government to less than one-half of the original contract price.

CARBINES

Thousands of Winchester carbines are being produced by Western's Winchester division, which originated and developed this new, speedy, deadly-efficient semi-automatic weapon. Adopted by the Ordnance Department as the U. S. Carbine, Caliber .30, M1, it greatly increases offensive firepower of combat units.

METALS

As leading producers of cartridge brass for our own and other ammunition plants, and of critical metals for many other war uses, vastly enlarged brass mills at East Alton, Ill., and New Haven, Conn., are greatly aiding the war effort.... In steel, too, Western is helping Uncle Sam—saving millions of pounds of brass.... Tons of vital aluminum are being produced by an affiliated corporation.... Heat exchangers and miles of seamless copper radiator tubes, both developed and produced by Winchester, are used in airplanes, tanks and landing barges.

ON land and sea, and in the sky—wherever America is fighting—products of the Western Cartridge Company, its divisions and affiliates, are contributing to the crushing offensive power of the United Nations.

Torrents of retribution for the Axis are pouring from Western-operated plants and factories, manned by more than 50,000 production soldiers. Accuracy and reliability of rifles and carbines; high efficiency of shells and cartridges; unyielding strength of metals; devastating force of military explosives—all these, and many more, are Western contributions to freedom.

From the manufacture of sporting arms and ammunition and related products in the metals and explosives fields, Western has diverted a half-century of peace-time experience to producing weapons of war.

The basic "know-how" of Western's own technicians, acquired through years of research, has been multiplied over and over through the expansion of our facilities and by the extension of Western management to government-owned plants.

Today, the Western organization measures its production in billions of units, each representing the highest skills known to American precision manufacture. Many parts of cartridges and primers we produce must be held within tolerances finer than those of a jeweled watch. Most Western explosives require split-second perfection in manufacture as in performance. Winchester rifles and carbines are now, as ever, among the most precisely-built products on earth. But with it all, Western's vast production reaches out to equip and hearten Allied fighting men beyond all the seven seas.

EXPLOSIVES

Western loads the 20 mm. shell, highly effective against dive bomber attacks on our ships—and we are making tetryl, used in the shell's bursting charge, by an improved, Western-developed process.... Smokeless ball powder, another Western development, produced 5 times faster than other smokeless powders, was put into quantity production rapidly when speed was vital.... Among other products for war, we are making detonators and primers for naval shells and other projectiles—igniters for incendiary bombs—and great quantities of black powder, dynamite and other explosives.

SHOTGUNS-SHELLS

Aerial gunners, in training, are using Winchester shotguns and shot shells, Western shot shells, target-throwing equipment and "clay" targets—the peace-time choice of sportsmen everywhere.

Western

CARTRIDGE COMPANY

EAST ALTON, ILLINOIS

WINCHESTER REPEATING ARMS COMPANY
New Haven, Conn.

THE UNITED STATES CARTRIDGE COMPANY
St. Louis, Mo.

BOND ELECTRIC CORPORATION
New Haven, Conn.

OLIN CORPORATION
(Aluminum Division)
Tacoma, Wash.

And Other Divisions and Affiliates

FLASHLIGHTS

Thousands of flashlights and batteries, made by Winchester and by Bond Electric Corporation, New Haven, Conn., another Western division, are providing dependable, portable light in war plants.

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